

CREEP BEHAVIOR OF LINEAR LOW DENSITY POLYETHYLENE FILMS

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Does polyethylene creep? It was concluded that creep properties of polyethylene are influenced by the presence of long chains which make the material softer and less creep resistance. However, long chains can increase the resistance to brittle failure under very long term creep conditions [4].

What are the disadvantages of low density polyethylene? Disadvantages of LDPE Plastic Low melting point: LDPE plastic has a low melting point, which can make it unsuitable for use in products that are exposed to high temperatures. UV degradation: LDPE plastic can degrade over time when exposed to UV radiation, which can limit its use in outdoor applications.

What are the uses of low density polyethylene? LDPE is widely used for manufacturing various containers, dispensing bottles, wash bottles, tubing, plastic parts for computer components, and various molded laboratory equipment. Its most common use is in plastic bags. Other products made from it include: Trays and general purpose containers.

What is linear low density polyethylene LLDPE structure? Linear low density polyethylene is a copolymer of ethylene and other alkenes such as butene, hexene or octene. This results in an essentially linear chain arrangement, with the comonomer (i.e. the butene, hexene or octene) forming short, regular chains on the main carbon backbone.

What is the creep behavior of polypropylene? Polypropylene (PP) exhibits suboptimal creep resistance due to the presence of methyl groups on its main chain, leading to irregular chain segment distribution, diminished inter-chain interaction, and

crystallinity.

What is the creep behavior of polymers? If a polymeric material is under constant stress, a continual change in strain will be observed. Simply stated, the stressed object will continue to deform over time. This change in dimension is known as creep.

What are the negative effects of LDPE? Environmental Impact: Accumulates in oceans and landfills, threatening wildlife and ecosystems. Human Health Risks: Associated with harmful chemicals and microplastics. Recycling Challenges: Difficult to recycle due to various types and additives.

Which is better, HDPE or LDPE? HDPE has higher abrasion and tear resistance than LDPE, along with higher tensile and shear strength. If you're going to bury your cables underground, then opt for HDPE. Otherwise, LDPE is an excellent choice. LDPE cable conduits give you outstanding flexibility, a high fatigue life and high-impact strength.

What is the difference between LDPE and HDPE film? HDPE is a more rigid material than LDPE, but both are tough and wear-resistant. Finally, whereas LDPE is a transparent, branching variant of PE, HDPE has a linear structure and is opaque. While both injection molding and additive manufacturing can process LDPE and HDPE, LDPE is best suited for injection molding.

What is the difference between polyethylene and low-density polyethylene? Differences Between HDPE and LDPE High-density polyethylene and low-density polyethylene are two common polyethylenes with differing structures but similar properties. HDPE has a linear structure and is opaque, while LDPE is a transparent branched version of PE.

What is LDPE film used for? LDPE is well suited for applications such as bags and liners, and food packaging. Other uses that LDPE film can be found in include envelope, shipping sacks, mattress bags, construction and agricultural films, grocery bags, trash can liners, and more.

What is the difference between polypropylene and low-density polyethylene? LDPE is transparent, and some PE can be made optically clear, but PP is almost

always translucent (like the milk jug mentioned a while ago). Polyethylene is a better electrical insulator but is prone to electrostatic charge, which is why some grades come with antistatic fill.

What are the disadvantages of LLDPE? Disadvantages of LLDPE: Improper disposal of LLDPE products can contribute to environmental pollution and littering, posing risks to wildlife and ecosystems. Heat Resistance: Compared to other types of polyethylene, such as high-density polyethylene (HDPE), LLDPE has lower heat resistance.

Why is LLDPE tougher than LDPE? LDPE is a homopolymer constituted by ethylene monomers. LLDPE is a copolymer of ethylene and another longer olefin, which is incorporated to improve properties such as tensile strength or resistance to harsh environments.

Is LLDPE more expensive than LDPE? LLDPE film prices of the same origin, meanwhile, have continued to stay below LDPE and HDPE film prices at \$957/ton on average with similar terms.

What is creep in PE? Creep is the tendency of a material to flow in the solid state. Wikipedia defines it more accurately as deformation [http://en.wikipedia.org/wiki/Creep_\(deformation\)](http://en.wikipedia.org/wiki/Creep_(deformation)). The rate of deformation is time and temperature dependent. No surprise there.

What is the creep failure of plastics? Creep failure in plastics is the slow deformation over a long period of time that typically ends in a rupture. It is caused by the application of continuous stress and can be affected by temperature, particularly extreme ones.

Which materials are prone to creep? Creep deformation is time and temperature dependent and can occur in metals and polymers. In general, materials will permanently deform well below their yield point when exposed to long-term stress and ill-suited temperature.

At what temperature do polymers creep? Both polymers and metals can creep. Polymers experience significant creep at temperatures above around 200 °C (330 °F); however, there are three main differences between polymeric and metallic

creep. In metals, creep is not linearly viscoelastic, it is not recoverable, and it is only present at high temperatures.

How do you test for polymer creep? Creep strain testing is performed by applying a constant tensile load to the test specimen and measuring the resulting strain in order. The stress is applied using a lever system with dead weights, and the strain is measured using precision extensometers which allow the strain to be recorded to computer.

What are three factors that affect creep? The amount of creep that the concrete undergoes is dependent upon 1) the magnitude of the sustained loading, 2) the age and strength of the concrete when the stress is applied, and 3) the total amount of time that the concrete is stressed.

What is the problem with polyethylene? Due to insufficient recycling efficiency, millions of tons of polyethylene pollutants accumulate in terrestrial or marine environments each year. Polyethylene is elastic, chemically stable, and non-biodegradable, and the traditional disposal methods include landfilling and incineration.

Does polyethylene degrade over time? Exposure to numerous environmental variables, such as heat, UV radiation, ozone, chemical attack, mechanical stress, and microbes, can cause polyethylene to degrade, eventually resulting in embrittlement, cracking, discoloration, etc.

How long does polyethylene last in the ground? For example, single-use plastic grocery bags take about two decades to break down. In contrast, plastic water bottles made with polyethylene terephthalate (PET), a common type of plastic, are estimated to take approximately 450 years to fully break down.

Does polyethylene last outdoors? High-Density Polyethylene (HDPE): HDPE is renowned for its strength and versatility. It's particularly useful in outdoor furniture and playground equipment, offering resistance to moisture and decay.

Strategic Review for Southern Africa: Vol. 36, No. 2 – Questions and Answers with Sabelo

Question 1: What are the key findings of the Strategic Review for Southern Africa, Vol. 36, No. 2?

Sabelo: The review identifies several key trends and issues facing the region, including:

- The impact of COVID-19 on economies and societies
- The rise of climate change and its implications for agriculture and water security
- The changing geopolitical landscape, particularly the growing influence of China
- The ongoing challenges of conflict and instability

Question 2: How is the COVID-19 pandemic affecting Southern Africa?

Sabelo: COVID-19 has had a devastating impact on the region, leading to widespread job losses, economic contraction, and increased poverty. The pandemic has also exposed weaknesses in healthcare systems and social protection mechanisms.

Question 3: What are the potential effects of climate change on Southern Africa?

Sabelo: Climate change is projected to have significant consequences for the region, including:

- Increased temperatures and droughts, which will reduce agricultural productivity
- Rising sea levels, which will threaten coastal communities
- Increased frequency and intensity of extreme weather events, such as cyclones

Question 4: How is the geopolitical landscape changing in Southern Africa?

Sabelo: The geopolitical landscape is becoming increasingly complex, with the growing influence of China a major factor. China has invested heavily in

infrastructure, trade, and energy projects in the region, and its presence is likely to continue to grow.

Question 5: What are the challenges and opportunities facing Southern Africa in the coming years?

Sabelo: The region faces numerous challenges, including:

- Economic recovery from COVID-19
- Addressing the impacts of climate change
- Promoting peace and stability
- Improving governance and reducing corruption

However, there are also significant opportunities for Southern Africa, including:

- Leveraging its natural resources and agricultural potential
- Developing renewable energy sources
- Expanding trade and investment
- Building resilient and inclusive societies

What are 5 electrical safety tips?

What is the 1 rule of electrical safety? Always Disconnect The first rule of electrical safety is to always disconnect whatever you're working on. This might mean unplugging an appliance that requires repairs or turning off a circuit breaker. You must disconnect before performing any electrical work to reduce the risk of electrocution.

What are 3 examples of electrical safety?

What are the basics of electrical safety? Always respect electricity! The main rule when working with or around electricity is NEVER touch a component in a circuit that has power. Turn off all power sources or remove the source from the circuit entirely before touching it. Note that even if the source of current is eliminated, some electricity might remain.

What is the golden rule for electrical safety? You must always know and respect the five golden rules for the prevention of electrical risk established by Royal Decree 614/2001. Five rules to prevent electrical risks: Disconnect, prevent any possible feedback, verify the absence of voltage, ground and short-circuit, signal and delimit the working area.

What are 10 safety rules in electrical?

What level of voltage is hazardous? Voltages over 50 volts AC or 120 volts DC are considered hazardous. Harm can be caused when exposed to 'live parts' or through conducting objects or materials. Shocks from equipment can cause severe and permanent injuries.

What is a safe DC voltage? A touch voltage of 50 V AC (1-1000 Hz) or 120 V DC for long shock duration (> 3 s) should not be exceeded in healthy adults otherwise a life-threatening condition may occur. For children and livestock the touch voltage is limited to 25 V AC or 60 V DC.

What is the golden rule of safety? One version of the Golden Rule for safety might be stated as "work as safely with others as you would have them work with you." Another might say: "I will follow the safety rules as I would have them followed."

What are 4 electrical hazards?

What is PPE for electricians? Electrical workers shall wear arc rated natural fiber apparel such as long sleeve shirts, long pants, jackets, coats, bib overalls, or coveralls to protect the torso and limbs from arc flash hazards. PPE must be arc rated at or above the incident energy or category level of the equipment being worked on.

What is improper grounding? When a circuit is not grounded properly, a hazard exists because unwanted voltage cannot be safely eliminated. If there is no safe path to ground for fault currents, exposed metal parts in damaged appliances can become energized.

What is called a fuse? In electronics and electrical engineering, a fuse is an electrical safety device that operates to provide overcurrent protection of an electrical

circuit. Its essential component is a metal wire or strip that melts when too much current flows through it, thereby stopping or interrupting the current.

What is a safe voltage for a human? At 50 volts (V) or less, the voltage is generally considered safe, as the current is too low to cause significant harm. Here are some of the lethal levels of voltage that you should be aware of: Low Voltage: Low voltage is typically defined as anything up to 500 volts.

How to prevent electric shock? Ensure that all electrical equipment, electrical circuits, and power supply systems are grounded. Never remove the grounding wire on a three-pronged cord. Also, never attach an ungrounded, two-prong adapter plug to a three-pronged cord or tool. Ensure that all circuit-breakers or fuses have the correct rating.

What is the one hand rule for electrical safety? When necessary to work on a “live” circuit, it is best to perform the work with one hand so as to prevent a deadly hand-to-hand (through the chest) shock current path. If at all possible, shut off the power to a circuit before performing any work on it.

What are the OSHA guidelines for electrical safety? ? Don't repair electrical cords or equipment unless qualified and authorized. ? Have a qualified electrician inspect electrical equipment that has gotten wet before energizing it. ? Lockout and tagout when electrical equipment or lines are to be serviced, maintained or adjusted.

What are the 3 basic rules of wiring? Rule 1 – Electricity will always want to flow from a higher voltage to a lower voltage. Rule 2 – Electricity always has work that needs to be done. Rule 3 – Electricity always needs a path to travel on.

What is the basic electrical safety? Keep power cords clear of tools during use. Suspend extension cords temporarily during use over aisles or work areas to eliminate stumbling or tripping hazards. Replace open front plugs with dead front plugs. Dead front plugs are sealed and present less danger of shock or short circuit.

What are three basic precautions for electrical safety?

What are three things to avoid when working around an electrical hazard? To prevent electrical burns, avoid using electrical appliances near running or standing water, don't stick knives, forks, or any metallic object into electrical outlets or

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plugged-in devices, and replace any frayed or broken electrical cords. Ensure you also follow safety instructions when using electric appliances.

Why is 50V a safe touch voltage? This low power level is the reason why low-voltage (50V) shocks have never been fatal — there is not enough electrical energy available to disrupt bodily functions.

How many volts is an outlet? Domestic sockets. Figure 1. Outlet layouts from around the world. Domestic electrical outlets supply 120 volts in North America and 220-240 volts in Europe, with most nations having outlets supplying voltages similar to one of those two values.

How many DC volts is lethal? Assuming a steady current flow (as opposed to a shock from a capacitor or from static electricity), shocks above 2,700 volts are often fatal, with those above 11,000 volts being usually fatal, though exceptional cases have been noted.

What are at least 5 steps to take for electrical safety?

What are 5 safety rules?

What is 5s safety in electrical? They are: seiri (sort), seiton (set in order), seiso (shine), seiketsu (standardize), and shitsuke (sustain).

What are the five golden rules of safety? The Five Golden Rules are our commitment to creating a secure work environment. By planning effectively, staying fit, receiving briefings, stopping work when necessary, and reporting concerns, you contribute to the safety of yourself, your colleagues, and the public.

What is the one hand rule for electrical safety? When necessary to work on a “live” circuit, it is best to perform the work with one hand so as to prevent a deadly hand-to-hand (through the chest) shock current path. If at all possible, shut off the power to a circuit before performing any work on it.

What are two types of electric current? There are two types of electric current known as alternating current (AC) and direct current (DC). The direct current can flow only in one direction, whereas the alternating direction flows in two directions.

What is the OSHA guidelines for electrical safety? ? Don't repair electrical cords or equipment unless qualified and authorized. ? Have a qualified electrician inspect electrical equipment that has gotten wet before energizing it. ? Lockout and tagout when electrical equipment or lines are to be serviced, maintained or adjusted.

What is the #1 rule in safety? For youth, Safety Rule #1 – Know What's Up means knowing vital personal information: their home address, parents' or guardians' full names and phone numbers, knowing what to do in an emergency, and having a family password that can be used if someone ever needs to pick them up from school because of an emergency.

What are the 5S's of safety? The adoption of the 5S methodology presents an incredible opportunity for organizations aiming to enhance their operational efficiency, workplace safety, and employee morale. By focusing on Sort, Set in Order, Shine, Standardize, and Sustain, companies can create a dynamic and disciplined work environment.

What is 5x5 in safety? As a comprehensive tool used by organizations during the risk assessment stage of project planning, operations management, or job hazard analysis, a 5x5 risk matrix aims to identify the probability and impact levels of injury and risk exposure to a worker concerning workplace hazards.

What are the 5S of electricity? The 5S approach includes sorting, setting in order, shining, standardizing, and sustaining the new processes. Maintenance work done by the team included fixing non-working fans by replacing capacitors, wires and windings. Tube lights were repaired by replacing starters and chokes.

What are the safety protocols? Workplace safety protocols, often called safety procedures, are step-by-step safety plans guiding employees through the safe performance of a given workplace procedure. As such, the protocol refers to both the process itself and the internal document put together by an organization.

What is 6S in safety? The 6S method, based on the 5S method, is a workplace improvement process and part of Lean Management. The 6S method, also referred to as "5S + Safety", assists in maintaining productivity and safety in the workplace. The six steps of the 6S method are: sort, systematize, clean, standardize, self-

discipline and safety.

What are 3 general safety rules?

Which safety rule is most important? Some of the most important safety rules include staying aware of your surroundings, using the right tools for the job, wearing personal protective equipment when necessary, and following all safety rules and regulations.

What are the 7 step safety rules?

How do you turn off the speed limiter on a Land Rover Discovery? Press the LIM button (3) on the steering wheel controls to toggle between speed limiter and cruise control. The instrument panel displays the information lamp for the selected system. See SPEED LIMITER (GREEN) and CRUISE CONTROL (GREEN).

What does diff lock do on Land Rover Discovery 1? The LTG 4x4 Electric® locking differential performs as an open differential when not locked, meaning it has no effect on driveability. With the push of a button there is virtually instant locking, and the precision-forged gears lock to provide a 50-50 power split to each wheel.

What is the difference between Land Rover Discovery 1 and 2? The Discovery 2 was longer and wider than the Discovery 1 although the wheelbase remained at 100 inches (the chassis was very similar with the addition of extra crossmembers) and the door sizes and apertures were also the same as before - however the new model was only offered in the five-door configuration.

How do you unlock a Land Rover Discovery? To engage the Land Rover keyless entry car feature, simply pull the handle to open the door. Because the keyless entry remote fob is detected in close proximity to your vehicle, the alarm disarms and the doors unlock simultaneously as you pull open your door. Your exterior lights will flash twice as confirmation.

How do I turn on my speed limiter? Most limiters are controlled by buttons on the steering wheel or on an indicator stalk. They are usually activated by pressing a button with the letters 'LIM' or one of several similar symbols. Don't get confused with the very similar symbol for cruise control, which is an arrow on a speedometer.

Can I remove speed limiter on my car? Removing a speed limiter is completely safe and legal on most vehicles, but our vehicle experts will make sure that your speed limiter is not installed by law before performing any services. Removing the speed limiter can improve performance and increase fuel economy, providing you with a better driving experience.

Is it OK to drive with diff lock on? First, a diff lock should not be engaged for on road driving, unless weather conditions such as snow or ice mean that extra traction is required. Use your locking differential when you want to go off road, for driving on difficult terrain, such as dirt, gravel, mud or snow.

How fast can you drive with diff lock on? This is a function that many adventurers consider necessary to equip a vehicle. How fast can you drive when the differential lock is engaged on the vehicle? When using the differential lock, your speed should not exceed 25 mph.

When should you switch the diff lock off? Explanation: You must always disengage the diff-lock as soon as the vehicle is moving. The differential allows the rear wheels to revolve at different speeds, and this allows the vehicle to follow a curved path. Attempting to turn with the diff-lock engaged could result in the vehicle continuing straight on.

Which Discovery engine is best? The P360 petrol version takes the title for best performer in the Discovery range. Its 3.0-litre straight six unit produces 355bhp and manages the 0-62mph sprint in 6.5 seconds, before topping out at a 130mph maximum.

Which Land Rover Discovery model is the most reliable? More modern 2009 to 2016 Land Rover Discovery LR4 models are even more reliable, and they avoid many of the faults of earlier generations of this car. In addition, newer Land Rover Discovery cars have more powerful engines and more tech-heavy elements, like safety features.

What is special about Land Rover Discovery? The Land Rover Discovery stands out with its luxurious interior and above-average off-road performance. Previous Discovery models suffered from a poorly designed infotainment system, but Land

Rover's newest system is much improved.

What is restricted mode on Land Rover Discovery? The Restricted Performance alert indicates that there is an issue within your Land Rover's power system. The power system is the internal function of your Land Rover and should be inspected by your dealer. Your dealer will most likely hook your Land Rover up to a computer to pinpoint the issue.

What is super lock Land Rover?

Can you lift a Land Rover Discovery? Lifted Land Rover Discovery. A lifted Land Rover like the Discovery is a vehicle that has had the ride height raised using an aftermarket lift kit (as opposed to a genuine OEM off-roading kit or accessory). A lifted Land Rover Discovery offers benefits for off-roading and more: Higher ground clearance.

What happens when you hit speed limiter? When the pre-determined speed is met, the computer restricts the flow of fuel and air to the engine. Therefore, as a driver, you will not be able to exceed the pre-determined top speed. However, all speed limiters can be overridden. If there is a need to speed up quickly, pushing down hard on the accelerator will work.

How do I set my limiter? How to set up a limiter. To set a limiter, add it as the last effect on your mastering signal chain and dial in the settings while listening to the loudest part of your track. Limiters typically have three main controls: threshold, release, and output ceiling.

How do I turn on speed limit mode?

Can you remove the factory speed limiter? To remove a speed limiter, specific modifications, and custom tuning procedures beyond installing a performance chip are required. However, it is important to consider the legal and safety implications of removing speed limiters, as they are in place to ensure public safety and comply with local regulations.

Where is the speed governor located? Where a speed governor is used, it shall be located where it is readily accessible from outside the hoistway and it cannot be struck by any moving object in normal operation or under conditions of overtravel

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and where there is sufficient space for full movement of the governor parts.

Is it bad for a car to hit the rev limiter? Well, you'll run 'dry', like running way too lean, overheating the engine. Basically, this is not so bad at all, even on circuit driving it wouldn't harm too much as long as you won't do it for more than a few rev-bounces every now and then.

How do I know if my diff lock is on?

When not to use front lockers? If steering through the obstacle is more important than traction, the use of a front locker may actually make the obstacle more difficult. So in these situations use only the rear locker.

What happens if you leave your diff lock on? The issue is, it is unpleasant at best, dangerous at worst. The very least of the issues is, it will cause excessive tire wear as the inside wheel skips, squirms and spins going around corners. Another issue is, the locked differential will exacerbate the vehicle's understeer. The faster you go, the worse it will be.

What are the disadvantages of diff lock? The problem with locking differentials is it forces the wheels to spin at the same speeds. That's a good thing in a straight line when not all of your wheels are touching the ground at the same time. However, this property makes turning difficult and hard to control, as well as causing tire wear and tear.

Can you engage diff lock while moving? To Engage (Lock) Stop your vehicle and make sure none of the wheels are spinning then move the dash mounted switch into the "Lock" position, ahead of time. Some vehicle manufacturers will allow the differential locks to be engaged while moving but only if the vehicle does not exceed 40kph and there is no wheel spin.

Is traction control better than diff lock? Traction control must increase fuel use through wasting energy in the brakes but by how much is hard to say. Diff lockers waste no energy. All energy provided by the engine is transferred to the wheels and distributed perfectly.

How do you turn off the speed warning on a Land Rover? Select Driver Assistance. Select Cruise and Limiter. Speed Limit Warning: Touch to select the
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required setting: Off.

Why does my Land Rover Discovery say restricted performance? Why is my Land Rover flashing the red triangle with an exclamation mark while saying Restricted Performance? The Restricted Performance alert indicates that there is an issue within your Land Rover's power system. The power system is the internal function of your Land Rover and should be inspected by your dealer.

How do I turn off intelligent speed limit assist?

What is lim on a Land Rover? Automatic Speed Limiter: Most Land Rover and Range Rover vehicles include a Speed Limiter feature that can provide more control during off-road (or on-road) escapades. You'll see the words "LIM" next to your set speed when it's active.

How do I turn off overspeed warning?

How do I turn on speed limit warning?

How does speed warning work? Ans: The device for speed limit warning is often an electronic speed sign equipped with radar technology. These signs are placed along the road and display the current speed limit, as well as provide real-time feedback to drivers who exceed the posted speed limit, thereby warning them to slow down.

What is Land Rover limp mode? Limp mode is activated when a severe engine malfunction occurs. You cannot drive at high speeds in this mode, and your power output is limited. Furthermore, if the car is in limp mode, it will not allow you to exceed 30-50mph and notify you that you need to take your Range Rover to a specialist garage immediately.

What does SRS mean on a Land Rover Discovery? Land Rovers are well known for their safety. You can have confidence in your vehicle when you're driving a Land Rover. However, if the airbag warning light is illuminated or the Supplemental Restraint System (SRS) sign on your dashboard lights up, then safety becomes a concern.

Is it safe to drive with restricted performance? You are safe to continue driving your car, although you may notice reduced performance, but you should look to have your car checked at the earliest opportunity by your local garage.

Can I turn off the speed limiter? To make a long story short, yes, there are ways to disable your car's speed limiter. Like most computers, the functions of your car's engine computer can be modified. But that's not always easy to pull off. Believe it or not, some cars have built-in ways to defeat the governor.

How do I activate speed limit assist?

What is the difference between speed limit assist and speed limit warning? Speed Limit Assist function operates based on the Offset setting added to the speed limit. If you want to change the set speed according to the speed limit, set the offset to 0. Speed Limit Warning function warns the driver when driving speed exceeds the speed at which the set Offset is added to speed limit.

How do I turn off the speed limiter on my Land Rover Discovery? Press the LIM button (3) to toggle between adaptive speed limiter and cruise control. The instrument panel displays the information lamp for the selected system. See SPEED LIMITER (GREEN), ADAPTIVE SPEED LIMITER (GREEN), and CRUISE CONTROL (GREEN).

What does snowflake mean on a Range Rover? This symbol, which looks like an amber-colored snowflake, indicates that outdoor temperatures have dropped close to or below freezing. Since there may be ice on the road, take additional care when driving.

How do I turn off lim? Pressing the LIM button while in automatic mode will turn Speed Limit Assist off.

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