



**KINERGY EX**

*The Harmony of Excellent Performance and Stylish European Design*



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**Concept**



## **Kinergy Technology**

*Kinergy EX's advanced technology and refined design maximize utility and practicality. It is the combination of technology and design that offers drivers impressive vehicle fuel efficiency and outstanding performance .*

### *Emotional Driving*

- Silence & Comfort Driving
- Safe & Joyful Driving
- Eco-friendly Driving

## **Design Concept**

*'European Style for  
Best Performance'*



## *Pattern Design*



# Design Feature

## Silence

### Shoulder Groove Width Design

- Optimized shoulder groove design helps to prevent unwanted road noise while driving.
- Groove width variation improves water drainage and maximizes wet condition performance.



### Pitch Design

- An optimal 5 pitch tread design reduces noise.

### VNT(Visual Noise Technology)

- Visual simulation analysis technology



## Eco-friendly

### New Silica Compound Application

- Rolling Resistance is lowered through use of an advanced silica tread compound for improved vehicle fuel efficiency.



Conventional

Hybrid Compound



## Comfort

### Optimal Sipe Design Technology

- Advanced tread block and sipe designs are incorporated for improved traction and comfort.



### Vibration & Noise Technology

- Unwanted noise and vibration are reduced by optimizing the tire's contact with the road surface.

## Safe & Joyful

### VAI System

- A Visual Alignment Indicator System allows drivers to check vehicle alignment by comparing tire's interior and exterior wear condition easily.

### Optimal 4-Grooves

- An optimal 4 Groove design improves wet condition braking and traction performance.

### Wide Tread Width

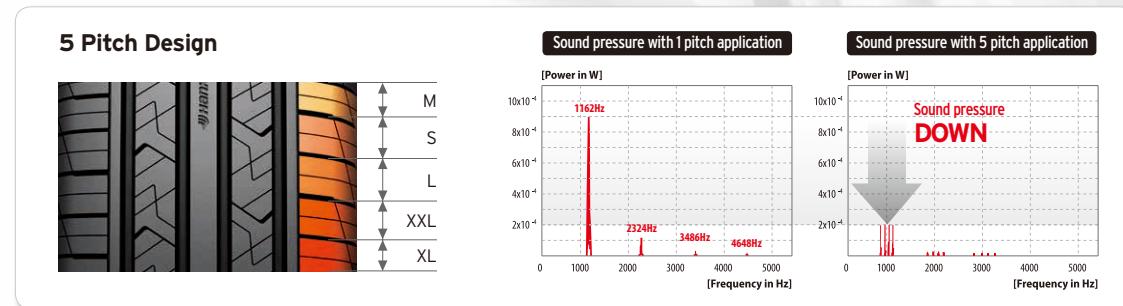
- Wide tread width design maximizes handling and braking ability.

## Silence



### 5 Pitch Design

Diverse block size and dispersed vibration/noise frequency help to reduce unwanted road noise and offer a quiet driving experience.



### VNT(Visual Noise Technology)

New simulation analysis allows visualization of noise during the design process in order to develop a tire that offers lower road noise levels.

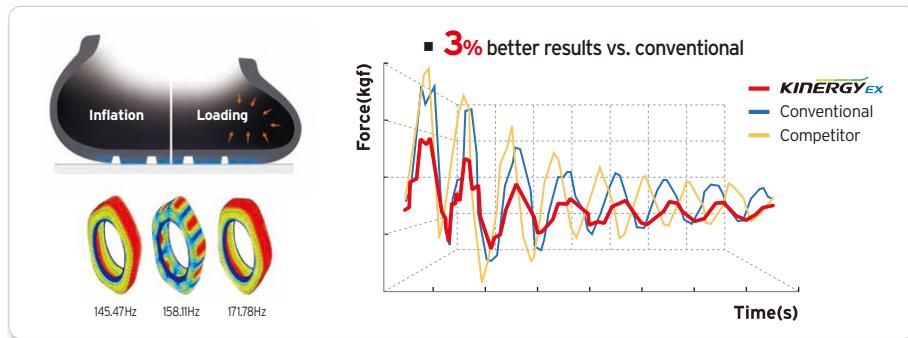


- Kinergy EX vehicle noise test shows **7%** better result.  
(vs. conventional)

## Comfort

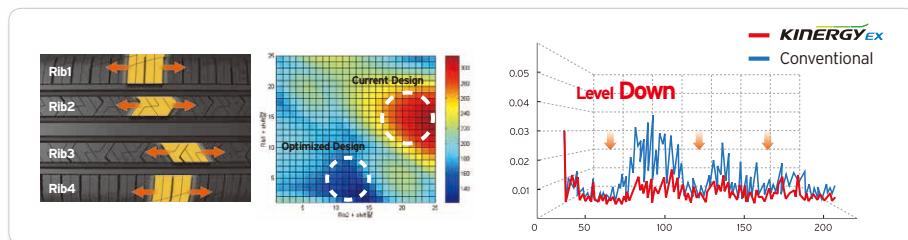
### 3D vibration analysis & pattern stiffness applied

Designed to absorb and reduce impact shock when driving on rough road surfaces to provide a smooth, composed ride.



### Optimal Block Position

Vehicle ride is improved by use of tread block shift simulation during the design process to reduce vibration.



# Safe & Joyful

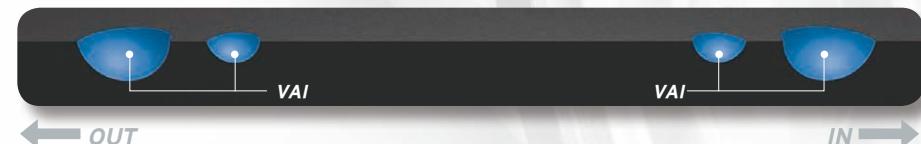
## VAI(Visual Alignment Indicator) System

### VAI

VAI System allows drivers to easily check a vehicle's alignment by visually inspecting two round indicators on the tire's interior and exterior shoulders to help reduce uneven wear.



### Before Use



### After Use (Regular Wear)



### After Use (Irregular Wear)

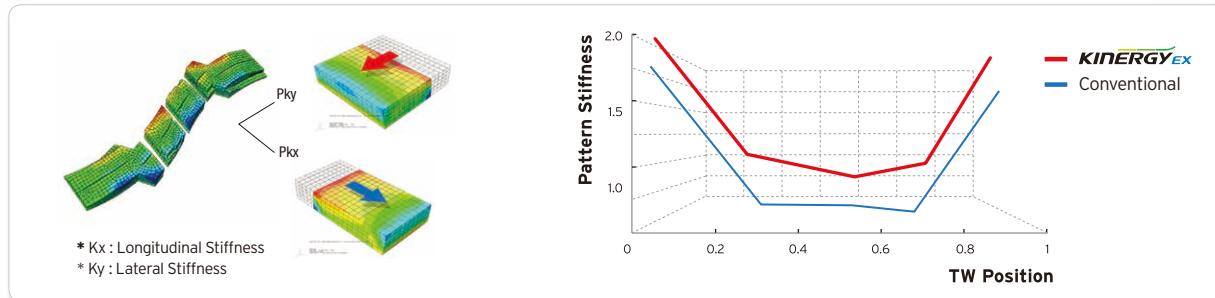


→ Different depth of Indicator marks show tire wear status.

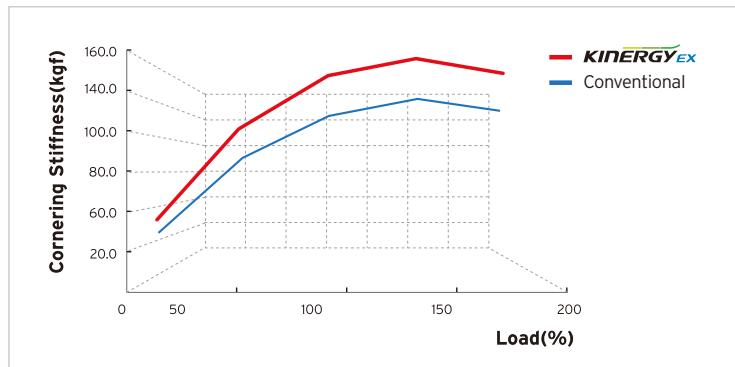
# Safe & Joyful

## The tire that drives as drivers want

The Kinergy EX is designed to optimize cornering force to provide drivers with quick and responsive handling.



## Cornering Force Test Result



## Cornering Stiffness



## Eco-friendly

KINERGY EX  
Silica  
COMPOUND

### Shorter Stopping Distance on Wet Condition



Size : 205/55R16  
Speed : 100kph → 0 kph  
Depth of water : 1mm

### Low Rolling Resistance



# Construction

## Structure Design Technology

### High Dispersion Silica Tread Compound

High dispersion silica compound provide excellent ride, noise performances & lower rolling resistance.

### Wide 2 Steel Belt

Wide 2 Steel Belt provides optimized foot shape & improved handling performance.

### Super High Turn Up Carcass

Sidewall reinforced by super high turn up carcass line. Enhanced sidewall provides superior protection abilities form the impact damages.

### High-Hardness Bead Filler

Ensures enhanced handling and steering response.

### Strong Single Strand Bead Wire

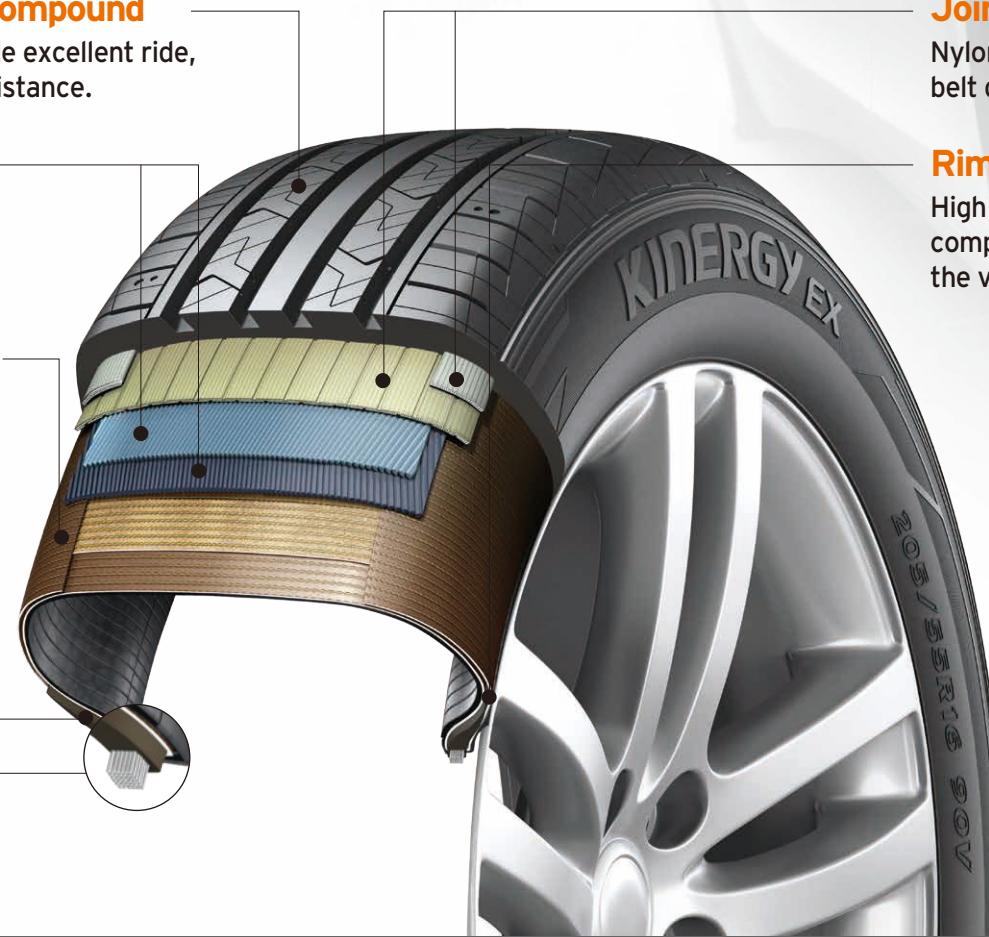
Strong bead wire provides improved uniformity and durability.

### Jointless Reinforcement Belt

Nylon jointless full & edge cover improve belt durability.

### Rim Protect Bar

High stiffness protector shape compound protect the rim surface from the various impacts.



## Test Result

