



T50-500

HDPE for Injection Moulding

T50-500 is a high density polyethylene characterized by a narrow molecular weight. It is intended for injection moulding applications where a good balance of processability and end-use properties are required.

T50-500 has the following characteristics:

- Good rigidity
- High impact strength
- meets FDA requirements of 21CFR 177.1520

Examples of applications:

- Pails, shopping carts, wheel hubs, general purpose injection moulding

TYPICAL PHYSICAL PROPERTIES

Property	Typical Value	Units	Test Method
Melt flow rate (2.16 kg load)	6.5	g/10min	ASTM D 1238
Density	953	kg/m ³	ASTM D 4883
Tensile strength at yield	27	MPa	ASTM D 638
Elongation at break	800	%	ASTM D 638
Flexural Modulus	1250	MPa	ASTM D 790
Notched IZOD Impact Strength	64	J/m	ASTM D 256
Hardness (Shore D)	65		ASTM D 2240
Vicat softening point	128	°C	ASTM D 1525

The properties shown are typical values measured on the product and should not be considered as specifications



High Density Polyethylene



Food contact applications

As dispatched from our plants Innovene grades meet the requirements of most countries in respect of their usage in food contact applications. Official confirmation of compliance with current requirements in the individual countries will be provided on request. No liability can be accepted for any damage, loss, or injury arising out of failure to obtain such confirmation, or failure to observe any recommendations given.

Polyethylene and the environment

"INEOS will act responsibly and caringly towards those who work for us, the community whom we serve and the environment in which we live."

Natural Innovene polymers, as supplied, can be recycled, incinerated or disposed of in landfill without detriment to the environment.

With recycling, clean waste can be reused for many less demanding applications.

Alternatively, with properly controlled and efficient incineration, preferably linked to heat or other energy recovery systems, polyethylene's high calorific value will assist the combustion of municipal solid waste.

In landfill sites, Innovene grades do not degrade to produce voids, and do not emit dangerous gases or contribute to ground water pollution.

Natural Innovene polymers, as manufactured, comply with the limit for heavy metals (100 ppm total of lead, cadmium, mercury and hexavalent chromium) in packaging materials as defined in the European Union Directive 94/62/EC on packaging and packaging waste and the corresponding US CONEG regulations.

If pigments or other additives are incorporated into the Innovene polymers at the processing stage, the above statements may not be fully valid. INEOS will be pleased to offer advice in specific cases.

Health and safety

Material Safety Data Sheets for Innovene grades are available, and should be consulted before handling and using Innovene grades.

Exclusion of liability

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