



INpipe 100

Bimodal Black HDPE for Pipe Extrusion

INpipe 100 is a black high density polyethylene copolymer designed for the extrusion of pipes.

INpipe 100 is classified PE 100 in accordance with ISO 12162 based on ISO 9080 analysis. PE 100 compounds are usually used for water & gas transportation as described in ISO 4427 and 4437 respectively.

INpipe 100 has the following characteristics:

- Outstanding environmental stress crack resistance
- High stiffness
- High impact strength (Rapid Crack Propagation)
- Good processability

TYPICAL PHYSICAL PROPERTIES

Property	Typical Value	Units	Test Method
Melt flow rate (5 kg load)	0.3	g/10min	ISO 1133
Density	959	kg/m ³	ISO 1872/1
Tensile strength at yield (50 mm/min)	24	MPa	ISO 527-2
Tensile Modulus (1 mm/min)	1100	MPa	ISO 527-2
Elongation at break	> 300	%	ISO 527-2
Vicat softening point (1 kg)	128	°C	ISO 306
BTT stress crack resistance (F50 at 50°C, 100 % concentration)	> 1000	hour	ASTM D1693

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.

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