Refining & Chemicals
Polymers

Technical data sheet
Low Density Polyethylene INJECTION MOULDING & COMPOUNDING Produced in Europe

Description

LDPE 1700 MN 18 C is a low density polyethylene made by a high pressure autoclave process.

Grade for easy flow injection moulding of flexible parts, powder production for grinding and master-batches.

Characteristics

Property	Method	Unit	Typical value
Density	ISO 1183	g/cm³	0.918
Melt Flow Rate (190°C/2.16 kg)	ISO 1133	g/10 min	70
Melting temperature	ISO 11357	°C	105
Vicat temperature	ISO 306	°C	84

Values indicated are typical for this product. Density and MFR are properties routinely measured during "the standard quality control procedure". The other figures are generated by tests not included in the "standard quality control procedure", and are given for information only. Data are not intended for specification purposes.

Additives

LDPE 1700 MN 18 C doesn't contain antioxidant

Processing

Temperature profile for injection moulding: 160 to 220 °C

General conditions for injection:

- Mould temperature between 30 and 40°C
- Hold on pressure: 20 to 50% of injection pressure
- Switch to hold on pressure: by 90% of mould filling
- Shrinkage: between 2 and 4% (according to thickness and moulding conditions)

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Mechanical properties

Property	Method	Unit	Typical value (*)
Tensile Strength at Yield	ISO 527-2	MPa	8
Tensile Strength at Break	ISO 527-2	MPa	7
Elongation at Break	ISO 527-2	%	120
Modulus of Elasticity	ISO 527-2	MPa	150
Shore Hardness D (after 15")	ISO 868		50

(*) Figures stated hereabove are measured on a moulded plate.

Handling and storage

Please refer to the safety data sheet (SDS) for handling and storage information. It is advisable to convert the product within one year after delivery provided storage conditions are used as given in the SDS of our product. SDS may be obtained from the website: www.totalrefiningchemicals.com

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