Refining & Chemicals
Polymers

Technical data sheet
High Density Polyethylene
Produced in Europe

Description

HDPE XRT 70 is a high performance hexene-based compound primarily intended for hot & cold water pipe as well as demanding industrial pipe applications.

HDPE XRT 70 key characteristics are

- a PE-RT Type II classification
- a superior resistance to slow crack growth coupled with a MRS of 10 MPa, ensuring safe and durable pipe systems operation
- a broad bimodal molecular weight distribution offering outstanding processing properties from small bore pipes to larger diameter pipes extrusion, for both mono- and multilayer applications
- an optimised formulation of additives providing excellent long-term stability in service at elevated temperatures.

Characteristics

Property	Method	Unit	Typical value (*)
Density	ISO 1183	kg/m³	947
Melt Flow Rate (190°C/5 kg)	ISO 1133/T	g/10 min	0.7
Oxidation Induction Time (210 °C)	ISO 11357-6	min	≥ 40
Thermal Conductivity at 60°C	-	W/m°K	0.35
Coefficient of Linear Thermal Expansion at 40°C	-	m/m°K	1.7 E-4
Tensile Modulus	ISO 527	MPa	850
Tensile Stress at Yield	ISO 527	MPa	23
Tensile Elongation at break	ISO 527	%	≥350
Flexural modulus at 1 %	ISO 178	MPa	750
FNCT (Arkopal, 80 °C, 4.0 MPa)	ISO 16770	h	≥ 2000
Charpy Impact Strength (0°C)	ISO 868	kJ/m²	20

(*) Data not intended for specification purposes

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Processing

HDPE XRT 70 can be processed on standard pipe extrusion equipment. A melt temperature between 190 and 230°C is advised.

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: