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Polyethylene HDPE XRT 70

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