TotalEnergies

Refining & Chemicals
Polymers

Polyethylene HDPE XRT 70

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 179	kJ/m²	20

(*) Data not intended for specification purposes

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.polymers.totalenergies.com.

Information contained in this publication is true and accurate at the time of publication and to the best of our knowledge. The nominal values stated herein are obtained using laboratory test specimens. These are typical values not to be construed as specification limits. Before using one of the products mentioned herein, customers and other users should take all care in determining the suitability of such product for the intended use. Unless specifically indicated, the products mentioned herein are not suitable for applications in the pharmaceutical or medical sector. The Companies within TotalEnergies Petrochemicals do not accept any liability whatsoever arising from the use of this information or the use, application or processing of any product described herein. No information contained in this publication can be considered as a suggestion to infringe patents. The Companies disclaim any liability that may be claimed for infringement or alleged infringement of patents.

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