

TOTAL Polyethylene XSené® HDPE XRT 70

High Density Polyethylene
TOTAL Refining & Chemicals

Message:

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 large diameter pipes extrusion, for both mono- and multilayer applications
- an optimised formulation of additives providing excellent long-term stability in service at elevated temperatures.

General Information			
Additive	Unspecified Additive		
Features	Bimodal Molecular Weight Distribution		
	Good Stability		
Uses	Piping		
Agency Ratings	EC 1907/2006 (REACH)		
Forms	Pellets		
Processing Method	Pipe Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.947	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	0.70	g/10 min	ISO 1133
FNCT ¹ (80°C)	> 2.7	month	ISO 16770
Charpy Impact Strength (0°C)	20.0	kJ/m ²	ISO 868
Oxidation Induction Time (210°C)	> 40	min	ISO 11357-6
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	850	MPa	ISO 527-2
Tensile Stress (Yield)	23.0	MPa	ISO 527-2
Tensile Strain (Break)	> 350	%	ISO 527-2
Flexural Modulus - 1% Secant	750	MPa	ISO 178
Thermal	Nominal Value	Unit	Test Method
CLTE - Flow (40°C)	1.7E-4	cm/cm/°C	
Thermal Conductivity (60°C)	0.35	W/m/K	
Extrusion	Nominal Value	Unit	
Melt Temperature	190 to 230	°C	
NOTE			
1.	Arkopal, 4 MPa		

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