

HDPE

HDPE for PE-RT

► XRT70K

● Description

HDPE XRT70K is a high performance hexene-based polyethylene primarily intended for hot & cold water pipe as well as demanding industrial pipe applications.

● Characteristics

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

● Physical Properties

Properties	Test Method	Units	XRT70K
Melt Index (190°C/5kg)	ISO 1133	g/10min	0.7
Density	ISO 1183	g/cm ³	0.947
Oxygen Induction Time (210°C)	ISO 11357-6	min	>40
Thermal Conductivity (60°C)	Hanwha Total	W/m°K	0.35
Coefficient of Linear Thermal Expansion (40°C)	Hanwha Total	m/m°K	1.7E-4
Tensile Modulus	ISO 527	MPa	850
Tensile Strength at Yield	ISO 527	MPa	23
Tensile Elongation at Break	ISO 527	%	≥350
Flexural Modulus	ISO 178	MPa	750
FNCT (Arkopal, 80°C, 4.0MPa)	ISO 16770	hr	≥2000
Charpy Impact Strength (0°C)	ISO 868	kJ/m ²	20

*These are typical property values and are not to be construed as specifications.

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