HI-ZEX™ 550P

High Density Polyethylene

Prime Polymer Co., Ltd.

Message:

HI-ZEX™550P is a high-density polyethylene product. It can be processed by pipeline extrusion molding or extrusion, and is available in North America, Europe or Asia Pacific. Typical application areas are: water pipes/pipes/drinking water. The main characteristics are: high resistance to environmental stress fracture (escr).

General Information	
Features	High ESCR (Stress Cracking Resistance)
Uses	Piping system
Forms	Particle
Processing Method	Pipeline extrusion molding Extrusion

Physical	Nominal Value	Unit	Test Method
Density	0.946	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.23	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance (Compression Molded)	> 1000	hr	ASTM D1693
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D, Compression Molded)	65		ISO 868
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (Rotational Molded)	950	MPa	ISO 527-2
Tensile Stress (Yield, Compression Molded)	23.0	MPa	ISO 527-2
Tensile Strain (Break, Compression Molded)	300	%	ISO 527-2
Flexural Modulus (Compression Molded)	1100	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Unnotched Impact Strength (Compression Molded)	20	kJ/m²	ISO 179
Thermal	**Nominal Value**	**Unit**	**Test Method**
Vicat Softening Temperature	122	°C	ISO 306
Melting Temperature (DSC)	131	°C	ISO 3146

Additional Information

The value listed as Melting Temperature, ISO 3146, was tested in accordance with ISO 11357-3Tensile Strain at Break, ISO 527: >300%

Recommended distributors for this material

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