

HI-ZEX™ 540E

High Density Polyethylene

Prime Polymer Co., Ltd.

Message:

HI-ZEX™ 540E is a High Density Polyethylene product. It can be processed by extrusion and is available in Asia Pacific, Europe, or North America. Applications of HI-ZEX™ 540E include industrial applications and plumbing/piping/potable water.

General Information			
Features	General Purpose		
Uses	Industrial Applications Piping		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.956	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.13	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance	< 1000	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, Compression Molded)	68		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Compression Molded)	1300	MPa	ISO 527-2
Tensile Stress (Yield, Compression Molded)	29.0	MPa	ISO 527-2
Tensile Strain (Break, Compression Molded)	< 100	%	ISO 527-2
Flexural Modulus (Compression Molded)	1400	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	10	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	124	°C	ISO 306
Melting Temperature	134	°C	ISO 11357-3

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