

HI-ZEX™ 5100E

High Density Polyethylene

Prime Polymer Co., Ltd.

Message:

HI-ZEX™ 5100E 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™ 5100E include coating applications and wire & cable. Characteristics include:
Good Processability
High ESCR (Stress Crack Resistant)

General Information			
Features	Good Processability High ESCR (Stress Crack Resist.)		
Uses	Cable Jacketing Pipe Coatings		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.943	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.20	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance	> 600	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, Compression Molded)	60		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Compression Molded)	780	MPa	ISO 527-2
Tensile Stress (Yield, Compression Molded)	21.0	MPa	ISO 527-2
Tensile Strain (Break, Compression Molded)	> 500	%	ISO 527-2
Flexural Modulus (Compression Molded)	780	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	No Break		ISO 179
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	118	°C	ISO 306

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