

# HI-ZEX™ 5305E

High Density Polyethylene

Prime Polymer Co., Ltd.

Message:

HI-ZEX™ 5305E is a High Density Polyethylene product. It can be processed by extrusion and is available in Asia Pacific, Europe, or North America. Typical application: Wire & Cable.  
Characteristics include:  
Fast Molding Cycle  
High ESCR (Stress Crack Resistant)

General Information			
Features	Fast Molding Cycle		
	High ESCR (Stress Crack Resist.)		
Uses	Wire & Cable Applications		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.951	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.80	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)	62		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Compression Molded)	1100	MPa	ISO 527-2
Tensile Stress (Yield, Compression Molded)	24.0	MPa	ISO 527-2
Tensile Strain (Break, Compression Molded)	440	%	ISO 527-2
Flexural Modulus (Compression Molded)	1000	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	6.0	kJ/m²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	122	°C	ISO 306
Melting Temperature	130	°C	ISO 11357-3

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