

# HI-ZEX™ 6300M

High Density Polyethylene

Prime Polymer Co., Ltd.

## Message:

HI-ZEX™ 6300M 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™ 6300M include electrical/electronic applications and plumbing/piping/potable water. Characteristics include:  
Chemical Resistant  
Creep Resistant  
High ESCR (Stress Crack Resistant)

General Information			
Features	Good Chemical Resistance		
	Good Creep Resistance		
	High ESCR (Stress Crack Resist.)		
Uses	Conduit		
	Piping		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.951	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.11	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)	1000	MPa	ISO 527-2
Tensile Stress (Yield, Compression Molded)	23.0	MPa	ISO 527-2
Tensile Strain (Break, Compression Molded)	> 500	%	ISO 527-2
Flexural Modulus (Compression Molded)	1100	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	17	kJ/m <sup>2</sup>	ISO 179
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	122	°C	ISO 306
Melting Temperature	131	°C	ISO 11357-3

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