

HI-ZEX™ 7800M

High Density Polyethylene

Prime Polymer Co., Ltd.

Message:

HI-ZEX™ 7800M is a High Density Polyethylene product. It can be processed by extrusion and is available in Asia Pacific, Europe, or North America. Typical application: Plumbing/Piping/Potable Water.

Characteristics include:

High ESCR (Stress Crack Resistant)

Impact Resistant

General Information			
Features	High ESCR (Stress Crack Resist.)		
	High Impact Resistance		
Uses	Piping		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.954	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.040	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)	65		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Compression Molded)	1200	MPa	ISO 527-2
Tensile Stress (Yield, Compression Molded)	28.0	MPa	ISO 527-2
Tensile Strain (Break, Compression Molded)	> 500	%	ISO 527-2
Flexural Modulus (Compression Molded)	1200	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	124	°C	ISO 306
Melting Temperature	132	°C	ISO 11357-3

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