

Evolve™-H SP5505

High Density Polyethylene

Prime Polymer Co., Ltd.

Message:

Evolve™-H SP5505 is a High Density Polyethylene product. It can be processed by pipe extrusion and is available in Asia Pacific, Europe, or North America. Typical application: Plumbing/Piping/Potable Water. Primary characteristic: impact resistant.

General Information			
Features	Bimodal Molecular Weight Distribution		
	High Impact Resistance		
Uses	Piping		
Processing Method	Pipe Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.951	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.27	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance	> 600	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	63		ASTM D2240, ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	> 600	MPa	ISO 527-2
Tensile Stress (Yield)	24.0	MPa	ISO 527-2
Tensile Strain (Break)	> 33	%	ISO 527-2
Flexural Modulus	950	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	No Break		ISO 179
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -60.0	°C	ASTM D746A, ISO 974
Vicat Softening Temperature	127	°C	ASTM D1525, ISO 306
Melting Temperature	131	°C	ISO 11357-3, ASTM D3418

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