

Evolve™-H SP4005

High Density Polyethylene

Prime Polymer Co., Ltd.

Message:

Evolve™-H SP4005 is a High Density Polyethylene product. It can be processed by film extrusion and is available in Asia Pacific, Europe, or North America. Applications of Evolve™-H SP4005 include bags/liners, film and industrial applications.

Characteristics include:

High Stiffness

Impact Resistant

General Information			
Features	Bimodal Molecular Weight Distribution		
	Good Melt Strength		
	High Impact Resistance		
	High Stiffness		
Uses	Film		
	Heavy-duty Bags		
	Industrial Applications		
Processing Method	Film Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.940	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.45	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance	> 600	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	60		ASTM D2240, ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	> 600	MPa	ISO 527-2
Tensile Stress (Yield)	19.0	MPa	ISO 527-2
Tensile Strain (Break)	> 25	%	ISO 527-2
Flexural Modulus	750	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	117	°C	ASTM D1525, ISO 306
Melting Temperature	127	°C	ISO 11357-3, ASTM D3418

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