

HI-ZEX™ 5000S

High Density Polyethylene

Prime Polymer Co., Ltd.

Message:

HI-ZEX™ 5000S 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™ 5000S include adhesives/tapes and straps/ropes. Characteristics include:
Good Processability
Good Weather Resistance

General Information			
Features	Good Processability		
	Good Weather Resistance		
Uses	Netting		
	Rope		
	Tape		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.950	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.82	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance	30.0	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, Compression Molded)	63		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Compression Molded)	1100	MPa	ISO 527-2
Tensile Stress (Yield, Compression Molded)	27.0	MPa	ISO 527-2
Tensile Strain (Break, Compression Molded)	450	%	ISO 527-2
Flexural Modulus (Compression Molded)	1200	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	14	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	123	°C	ISO 306
Melting Temperature	131	°C	ISO 11357-3

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