

HI-ZEX™ 5100B

High Density Polyethylene

Prime Polymer Co., Ltd.

Message:

HI-ZEX™ 5100B is a High Density Polyethylene product. It can be processed by blow molding and is available in Asia Pacific, Europe, or North America. Applications of HI-ZEX™ 5100B include containers and packaging. Primary characteristic: high escr (stress crack resistant).

General Information			
Features	High ESCR (Stress Crack Resist.)		
Uses	Containers		
	Cosmetic Packaging		
Processing Method	Blow Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.944	g/cm³	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
Shore Hardness (Shore D, Compression Molded)	61		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Compression Molded)	850	MPa	ISO 527-2
Tensile Stress (Yield, Compression Molded)	21.0	MPa	ISO 527-2
Tensile Strain (Break, Compression Molded)	> 500	%	ISO 527-2
Flexural Modulus (Compression Molded)	850	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	13	kJ/m²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	119	°C	ISO 306
Melting Temperature	126	°C	ISO 11357-3

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