

# HI-ZEX™ 550BR

High Density Polyethylene

Prime Polymer Co., Ltd.

Message:

HI-ZEX™ 550BR is a High Density Polyethylene product. It can be processed by blow molding and is available in Asia Pacific, Europe, or North America.  
Typical application: Containers.  
Characteristics include:  
Good Processability  
High ESCR (Stress Crack Resistant)

General Information			
Features	Good Processability High ESCR (Stress Crack Resist.)		
Uses	Containers		
Processing Method	Blow Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.951	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	< 1000	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, Compression Molded)	66		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Compression Molded)	1100	MPa	ISO 527-2
Tensile Stress (Yield, Compression Molded)	25.0	MPa	ISO 527-2
Tensile Strain (Break, Compression Molded)	< 300	%	ISO 527-2
Flexural Modulus (Compression Molded)	1200	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	11	kJ/m²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	121	°C	ISO 306
Melting Temperature	133	°C	ISO 11357-3

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