

Braskem PE HDB1052U1

High Density Polyethylene

Braskem IDESA

Message:

HDB1052U1 is a high molecular weight copolymer grade developed for blow molding applications where a combination of good rigidity and high environmental stress cracking resistance (ESCR) is required.

Applications:

High performance blow molded containers typically of 1-60 liters capacity for packaging aggressive products.

Process:

Blow Molding

General Information			
Features	Good Rigidity		
	High ESCR (Stress Cracking Resistance)		
	High molecular weight		
	Copolymer		
Uses	Blown Containers		
	Packaging		
	Blow molding applications		
	Container		
Processing Method	Blow molding		
Physical	Nominal Value	Unit	Test Method
Density	0.952	g/cm ³	ASTM D4883
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	10	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance			ASTM D1693
50°C, 10% Adinol	130	hr	ASTM D1693
50°C, 100% Adinol	> 1000	hr	ASTM D1693
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	26.0	MPa	ISO 527-2
Tensile Strain (Break)	> 300	%	ISO 527-2
Flexural Modulus	1100	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	23	kJ/m ²	ISO 179
Additional Information	Nominal Value	Unit	
Bottle Stress Crack Resistance (60°C)	2.1	day	

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