

Braskem PE HDB6050U1

High Density Polyethylene

Braskem IDESA

Message:

HDB6050U1 is a high molecular weight copolymer and UV stabilized grade developed for the production of medium- large blow molded articles. Provides excellent processability, good rigidity, high impact strength, outstanding chemical resistance and high ESCR.

Applications:

High performance blow molded containers typically 20-240 liters (5.3 63.4 gallons) capacity for packaging aggressive products; especially where approvals are required to UN recommendations for Dangerous Goods and RID/ADR Compatibility testing.

Process:

Blow Molding

General Information			
Additive	UV stabilizer		
Features	Good Rigidity		
	UV Stabilized		
	High ESCR (Stress Cracking Resistance)		
	High molecular weight		
	Copolymer		
	Impact resistance, high		
	Workability, good		
	Good chemical resistance		
Uses	Blown Containers		
	Packaging		
	Blow molding applications		
	Container		
Processing Method	Blow molding		
Physical	Nominal Value	Unit	Test Method
Density	0.950	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	6.0	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance			ASTM D1693
50°C, 10% Adinol	500	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)	> 500	%	ISO 527-2
Flexural Modulus	1000	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	No Break		ISO 179

Additional Information	Nominal Value	Unit
Bottle Stress Crack Resistance (60°C)	8.3	day

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