

# Braskem PE HDB0355

High Density Polyethylene

Braskem IDESA

Message:

The resin HDB0355 is a high density polyethylene copolymer developed for blow molding applications. This product is recommended for use in applications which require a combination of high top load strength and good environmental stress crack resistance (ESCR). This material meets the Food and Drug Administration requirements of 21CFR 177.1520.

Typical Applications:

Household containers, containers for the Chemical Industry (HIC) and for Pharmaceutical and Cosmetics Industry.

Process:

Blow Molding.

General Information			
Features	High ESCR (Stress Cracking Resistance)		
	Copolymer		
Uses	Blow molding applications		
	Industrial container		
	Container		
Agency Ratings	FDA 21 CFR 177.1520		
Processing Method	Blow molding		
Physical	Nominal Value	Unit	Test Method
Density	0.955	g/cm <sup>3</sup>	ASTM D4883
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.35	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	65		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - Tangent	1500	MPa	ASTM D638
Tensile Strength <sup>1</sup> (Yield)	27.6	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	> 700	%	ASTM D638
Flexural Modulus - Tangent	1240	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	190	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	74.0	°C	ASTM D648
Brittleness Temperature	< -75.0	°C	ASTM D746
Vicat Softening Temperature	131	°C	ASTM D1525
NOTE			
1.	51 mm/min		
2.	51 mm/min		

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