Braskem Idesa

Datasheet
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High Density polyethylene HDB0358

Description:

HDB0358 is a bimodal high-density polyethylene copolymer grade. Offers an outstanding balance between stiffness, impact strenght and Environmental Stress Cracking Resistance (ESCR), ideal for a wide range of blow moulding applications. This grade is particularly well suited to chemical and detergent packaging as the exceptional ESCR can allow for significant bottle weight reduction.

Applications:

Packages, Small bottles, Blow molding of packages up to 25 L for chemical and household products, oils and food packaging, Sheets extrusion and Corrugated pipe extrusion

Processes:

Extrusion Blow Molding, General extrusion.

Control Properties:

Feature	Method	Units	Values
Melt Flow Rate (190°C/2.16kg)	ASTM D1238	g/10 min	0.30
Density	ASTM D792	g/cm³	0.958

Typical Properties[1]

Feature	Method	Units	Values
Tensile Strength at Yield	ASTM D 638	MPa	30
Tensile Strength at Break	ASTM D 638	MPa	35
Strain at Yield	ASTM D 638	%	5
Strain at Break	ASTM D 638	%	690
Elasticity Modulus (Secant 1%)	ASTM D 638	MPa	1480
Flexural Modulus (Secant 1%)	ASTM D 790	MPa	1520
Izod Impact Strength[3]	ASTM D 256/A	J/m	155
Heat Deflection Temperature (0.455 MPa)	ASTM D 648	°C	74
Vicat Softening Point (10 N)	ASTM D 1525	°C	127
ESCR (10% Igepal)[2]	ASTM D 1693	h	134
ESCR (100% Igepal)[2]	ASTM D 1693	h	>1000

[1] Test specimens from compression molded plaque according to ASTM D4703.

[2] Condition B.

[3] Test temperature at 23°C.

Final Remarks

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