

High Density Polyethylene HS5502

Description:

HS5502 is a high density polyethylene, copolymer. Offers good processability and bottles produced have excellent stiffness.

Applications:

Blow Molded Small Volume:

Food, lubricant oils and pharmaceutical packing;

Toys;

Braskem does not recommend the use of HS5502 for the production of films.

Additives:

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Process:

Blow Molding;

Injection Blow Molding.

Control Properties:

	ASTM Methods	Units	Values
Melt Flow Rate (190°C/2.16kg)	D 1238	g/10 min	0.35
Melt Flow Rate (190°C/21.6kg)	D 1238	g/10 min	32
Density	D 792	g/cm ³	0.955

Typical Properties:

Plaque Properties^a

	ASTM Methods	Units	Values
Tensile Strength at Break	D 638	MPa	30
Flexural Modulus – 1% Secant	D 790	MPa	1350
Izod Impact Strength	D 256	J/m	250
Environmental Stress Cracking Resistance ^b	D 1693	h/F50	10
Environmental Stress Cracking Resistance ^c	D 1693	h/F50	20
Deflection Temperature under Load at 0.455 MPa	D 648	°C	75

(a) Test specimens prepared from compression molded sheet made according to ASTM D 4703.

(b) Compression molded 2 mm thickness, 0.3 mm notched-plaques. 10% Igepal. 50°C.

(c) Compression molded 2 mm thickness, 0.3 mm notched-plaques. 100% Igepal. 50°C.

Recommended Processing Conditions:
Temperature Profile:

- Feeding Zone: 185°C
- Barrel: 190°C
- Die: 195°C
- Parison: 200°C
- Mold Temperature Range: 5°C to 25°C

