

Producer: Braskem / Brazil

HS 5502

Description:

HS5502 is a high density polyethylene, hexene copolymer, produced through "Lopp Slurry" Process. Offers exceptional processability and bottles produced have excellent stiffness.

Application:

Blow Molded Small Volume: Food packing, pharmaceuticals, household and industrial chemical containers.

Process:

Blow Molding.

TYPICAL PROPERTIES	ASTM METHOD	UNITS	VALUES
Melt Flow Rate (190°C/2.16 kg)	D 1238	g/10 min	0.35
Melt Flow Index (190 °C, 21.6 kg)	D 1238	g/10 min	32
Density	D 792	g/cm ³	0.955
Typical Properties			
Tensile Strength at Yield	D 638	MPa	30
Tensile Strength at Break	D 638	MPa	27
Flexural Modulus - 1% Secant	D 790	MPa	1355
Shore D Hardness	D 2240	-	66
Izod Impact Strength	D 256	J/m	186
Environmental Stress Cracking Resistance ^d	D 1693	h/F50	17
Environmental Stress Cracking Resistance ^c	D 1693	h/F50	38
Deflection Temperature under Load at 0.455 Mpa	D 648	°C	69
Vicat Softening Temperature at 10 N	D 1525	°C	130

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

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

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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