

Producer: Braskem / Europe

## HS 5608

### Description:

**HS5608** is a high-density polyethylene with high molecular weight, hexene copolymer, produced through "Loop Slurry" process, suitable for blow molding of large volumes.

**HS5608** offers good processability, outstanding ESCR, excellent stiffness and impact strength.

### Application :

Typical blow molded applications include containers and drums from 10 to 200 liters, for chemical, agrochemical and food package.

### Process :

Large Parts Blow Molding.

PROPERTIES	ASTM METHOD	UNITS	VALUES
Melt Flow Rate (190°C / 5kg)	D 1238	g / 10 min	0.30
Melt Flow Rate (190°C / 21.6kg)	D 1238	g / 10 min	8.5
Density	D 792	g / cm <sup>3</sup>	0.955
Tensile Strength at Yield	D 638	MPa	30
Tensile Strength at Break	D 638	MPa	38
Flexural Modulus - 1% Secant	D 790	MPa	1363
Shore D Hardness	D 2240	-	66
Izod Impact Strength	D 256	J / m	520
Environmental Stress Cracking Resistance <sup>d</sup>	D 1693	h / F50	316
Environmental Stress Cracking Resistance <sup>c</sup>	D 1693	h / F50	>1000
Deflection Temperature under Load at 0.455 Mpa	D 648	°C	73
Vicat Softening Temperature at 10 N	D 1525	°C	127

<sup>(a)</sup> - Test specimens prepared from compression molded sheet made according to ASTM D 4703.

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

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

### Processing Recommendation:

#### Temperature Profile:

- Feeding Zone: 180 to 190°C
- Barrel: 190 to 200°C
- Die: 210°C