

High Density Polyethylene HS5403

Description:

HS5403 is a high density polyethylene, copolymer, exhibits high die swell, good environmental stress cracking resistance (ESCR), good surface quality and high transparency.

Applications:

Blow Molded Small Volume: Bottles for cleaning products, detergents, chemicals, pharmaceutical products and fabric softener.

Additives:

Process:

Blow Molding;

Injection Blow Molding.

Control Properties:

	ASTM Methods	Units	Values
Melt Flow Rate (190°C/2,16kg)	D 1238	g/10 min	0,30
Melt Flow Rate (190°C/21,6kg)	D 1238	g/10 min	26
Density	D 792	g/cm ³	0.954

Typical Properties:

Plaque Properties^a

	ASTM Methods	Units	Values
Tensile Strength at Break	D 638	MPa	30
Flexural Modulus – 1% Secant	D 790	MPa	1250
Izod Impact Strength	D 256	J/m	100
Environmental Stress Cracking Resistance ^b	D 1693	h/F50	40
Environmental Stress Cracking Resistance ^c	D 1693	h/F50	120
Deflection Temperature under Load at 0.455 MPa	D 648	°C	70

⁽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 not

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







Data Sheet Review 4 (Apr/16)

Final Remarks:

- This resin meets the requirements for olefin polymers as defined in 21 CFR, section 177.1520 issued by FDA Food and Drug Administration in force on the
- The information presented in this Data Sheet reflects typical values obtained in our laboratories, but should not be considered as absolute or as warranted values. Only the properties and values mentioned on the Certificate of Quality are considered as guarantee of the product.

 In some applications, Braskem has developed tailor-made resins to reach specific requirements.

- In case of doubt regarding utilization, or for other applications, please contact our Application Engineering.

 For information about safety, handling, individual protection, first aids and waste disposal, please see MSDS. CAS Registry number: 25213-02-9. The mentioned values in this report can be changed at any moment without Braskem previous communication.
- Braskem does not recommend this grade for packages, parts or any kind of product manufacture that will be used for storage or contact with solution that will have internal contact with human body.

 The content of this Data Sheet replaces previous revisions published for this product.
- This resin does not contain the substance Bisphenol A (BPA, CAS # No. 80-05-7) in its composition.



