High Density Polyethylene HS5608

Description:
HS5608 is a high-density polyethylene with high molecular weight, copolymer. Offers good processability, outstanding stress cracking resistance (ESCR), excellent stiffness and impact strength. Suitable for blow molding of large volumes

Applications:
Typical blow molded applications include containers and drums from 20 to 200 liters, for chemical, agrochemical and food package.

Additives:
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Process:
Large Parts Blow Molding.

Control Properties:

	ASTM Methods	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^3	0.955

Typical Properties:
Plaque Properties[a]

	ASTM Methods	Units	Values
Tensile Strength at Break	D 638	MPa	35
Flexural Modulus – 1% Secant	D 790	MPa	1350
Charpy Impact Strength at -40°C	D 6110	J/m	NB
Environmental Stress Cracking Resistance[b]	D 1693	h/F50	200
Environmental Stress Cracking Resistance[c]	D 1693	h/F50	>1000
Deflection Temperature under Load at 0.455 MPa	D 648	ºC	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. 50ºC.
(c) Compression molded 2 mm thickness, 0.3 mm notched-plaques. 100% Igepal. 50ºC.

Recommended Processing Conditions:
Temperature Profile:
Feedind Zone: 180 to 190°C
Barrel: 190 to 200°C
Die: 210°C

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Final Remarks:

1. 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 date of publication of this specification. The additives present are covered in appropriate regulation by FDA
2. 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.
3. In some applications, Braskem has developed tailor-made resins to reach specific requirements.
4. In case of doubt regarding utilization, or for other applications, please contact our Application Engineering.
5. For information about safety, handling, individual protection, first aids and waste disposal, please see MSDS. CAS Registry number: 25213-02-9.
6. The mentioned values in this report can be changed at any moment without Braskem previous communication.
7. 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.
8. Braskem polyolefin products do not have additives with metals or other substances on purpose of oxidegradation. These additives and the decomposition and disintegration of polyolefins caused by oxidegradation phenomenon can cause environmental pollution, decrease the package performance and increase migration of package constituent to food, compromising resin approval regarding the requirements of Anvisa Resolution 105/99. The use of these additives with Braskem polyolefin products implies immediate loss of performance guarantee described in this data sheet.
9. The content of this Data Sheet replaces previous revisions published for this product.
10. This resin does not contain the substance Bisphenol A (BPA, CAS # No. 80-05-7) in its composition.