



Data Sheet

21/02/2020

High Density Polyethylene HS5103

Description:

HS5103 is a high density polyethylene, copolymer, with a high molecular mass indicated for large volume blow molding. Storage drums produced with HS5103 offer excellent impact resistance.

Applications:

Blow molding large volumes, 200 liters storage drums

Processes:

Extrusion Blow Molding

Control Properties:

Characteristic	Method	Units	Values
Melt Flow Rate (190°C/21.6kg)	ASTM D 1238	g/10 min	2.2
Density	ASTM D 792	g/cm ³	0.952

Typical Properties:

Plaque Properties

Characteristic	Method	Units	Values
Melt Flow Rate (190°C/5kg)	ASTM D 1238	g/ 10 min	0.09
Tensile Strength at Yield (a)	ASTM D 638	MPa	30
Tensile Strength at Break (a)	ASTM D 638	MPa	35
Flexural Modulus - 1% Secant (b)	ASTM D 790	MPa	1200
Tensile Impact Strength ISO at 23 °C	ISO 8256	kJ/m ²	250
Deflection Temperature under Load at 0.455 MPa (b)	ASTM D 648	°C	70
FNCT	Braskem	min	> 200

Typical properties correspond to average values obtained in our laboratories. Test specimens prepared from compression molded sheet made according to ASTM D 4703. Thickness of test piece: a) 2 mm; b) 3 mm.

Final Remarks:

1. 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.
2. For regulatory information of the product, please refer to Regulatory Document or contact our Technical Assistance Area.
3. For information about safety, handling, individual protection, first aids and waste disposal, please refer to MSDS.
4. The mentioned values in this report can be changed at any moment without Braskem previous communication.