



Data Sheet

29/07/2020

High Density Polyethylene HS5010**Description:**

HS5010 is a high density polyethylene with high molecular weight, copolymer. Offers good processability, have good stress cracking resistance and low temperature impact resistance.

Applications:

Packages up to 20 liters for chemicals, domestic and industrial

Processes:

Thermoforming, Extrusion Blow Molding, Sheets extrusion

Control Properties:

Characteristic	Method	Units	Values
Melt Flow Rate (190°C/21.6kg)	D 1238	g/10 min	10
Density	D 792	g/cm ³	0.948

Typical Properties:

Plaque Properties

Characteristic	Method	Units	Values
Melt Flow Rate (190°C/5kg)	ASTM D 1238	g/ 10 min	0.38
Tensile Strength at Yield (a)	ASTM D 638	MPa	25
Tensile Strength at Break (a)	ASTM D 638	MPa	35
Flexural Modulus - 1% Secant (b)	ASTM D 790	MPa	1000
Tensile Impact Strength ISO at 23 °C	ISO 8256	kJ/m ²	140
Environmental Stress Cracking Resistance - notch 0,3 mm; 50°C; 10% Igepal CO630 (a)	ASTM D 1693	h/F50	40
Deflection Temperature under Load at 0.455 MPa (b)	ASTM D 648	°C	70

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.