


Datasheet

23/09/2019

High Density Polyethylene GP5550

Description:

GP5550 is a High Density Polyethylene with high molar mass. It is produced with bimodal technology and shows excellent mechanical properties and high resistance to stress cracking.

Applications:

Blends for irrigation pipes, Geodesic film, Pipes for mining , Optical and metallic cable cover, Energy and Telecom subducts

Processes:

Pipes Extrusion

Control Properties:

Feature	Method	Units	Values
Melt Flow Rate (190°C/5kg)	D 1238	g/10 min	0.3
Density	D 792	g/cm ³	0.949

Typical Properties - Plaque¹:

Plaque Properties

Feature	Method	Units	Values
Tensile Strength at Yield (a)	D 638	MPa	26
Elongation at Yield (a)	D 638	%	10
Tensile Strength at Break (a)	D 638	MPa	40
Elongation at Break (a)	D 638	%	1630
Flexural Modulus - 1% Secant (b)	D 2240	-	1190
Shore D Hardness (c)	D 1693	h/F50	66
Izod Impact Strength (b)	D 256	J/m	NB
Environmental Stress Cracking Resistance - notch 0,3 mm; 50°C; 100% Igepal CO630 (a)	ASTM D 1693	h/F50	> 1000
Deflection Temperature under Load at 0.455 MPa (b)	D 648	°C	70
Vicat Softening Temperature at 10 N (b)	D 1525	°C	126

¹ Test specimens from compression molded plaque according to ASTM D4703. Plaque Thickness: a) 2mm. b) 3mm c) 6mm. NB = No break.

Final Remarks:

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