Braskem

Datasheet
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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, Non-pressurized 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/cm³	0.949

Typical Properties - Plaque[1]:

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 - 2% Secant (b)	D 2240	-	1190
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	ºC	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

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