

Braskem PE GP5550

High Density Polyethylene

Braskem

Message:

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.

Application:

Straight pipes for mining; subducts for energy and telecom; jacketing of optic fibers and metallic cables; geomembranes; blends for irrigation pipes.

Process:

Extrusion

General Information			
Features	High Density		
	High ESCR (Stress Crack Resist.)		
	High Molecular Weight		
Uses	Fiber Optic Cable Jacketing		
	Piping		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Compression Molding		
	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.951	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	0.30	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (2.00 mm, 100% Igepal, Compression Molded, F50)	> 1000	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Compression Molded)	64		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, Compression Molded	25.0	MPa	
Break, Compression Molded	38.0	MPa	
Tensile Elongation			ASTM D638
Yield, Compression Molded	8.4	%	
Break, Compression Molded	780	%	
Flexural Modulus - 1% Secant (Compression Molded)	1150	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact (Compression Molded)	340	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, Compression Molded)	71.0	°C	ASTM D648
Vicat Softening Temperature	125	°C	ASTM D1525 ¹
NOTE			
1.	Loading 1 (10 N)		

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