

Braskem PE GM7040G

High Density Polyethylene

Braskem

Message:

GM7040G is a High Density Polyethylene compound specially developed for the manufacturing of extruded pipes for gas pressurized line. It is produced with bimodal technology and has high molar mass. It shows high mechanical properties and has excellent resistance to hydrostatic pressure and stress cracking. The resin has MRS (Minimum Required Strength) of 8 MPa according to ISO 9080 and is classified as PE 80 according to ISO 12162. GM7040G is manufactured in yellow color and contains additives to protect it against ultraviolet radiation action and photodegradation.

Meets the requirements of NBR 14462:00 and ISO 4437:07.

Application:

Yellow PE 80 pressure pipes for gas distribution; jacketing of underwater cables.

General Information			
Additive	UV Stabilizer		
Features	Fuel Resistant		
	High Density		
	High Molecular Weight		
Uses	Piping		
Appearance	Yellow		
Forms	Pellets		
Processing Method	Extrusion		
	Pipe Extrusion		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.947	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	0.45	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (50°C, 2.00 mm, 100% Igepal, Compression Molded, F50)	> 1000	hr	ASTM D1693B

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 15 sec, Compression Molded)	62		ASTM D2240

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, Compression Molded	23.0	MPa	
Break, Compression Molded	37.0	MPa	
Tensile Elongation			ASTM D638
Yield, Compression Molded	9.2	%	
Break, Compression Molded	770	%	
Flexural Modulus - 1% Secant (Compression Molded)	1080	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
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Notched Izod Impact (23°C, Compression Molded)	240	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, Compression Molded)	68.0	°C	ASTM D648
Vicat Softening Temperature	122	°C	ASTM D1525 ¹
NOTE			
1.	Loading 1 (10 N)		

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