

Braskem PE GM 5010 T2 B

High Density Polyethylene

Braskem

Message:

GM5010T2B is a High Density Polyethylene compounding specially developed for the manufacturing of extruded pipes for water distribution. It is produced with bimodal technology and has high molar mass. It shows high mechanical properties and has excellent resistance to hydrostatic pressure and to stress cracking. This resin has MRS (Minimum Required Strength) of 8 MPa, according to ISO 9080, and is classified as PE 80, according to ISO 12162. GM5010T2B is manufactured in blue color and contains additives to protect it against ultraviolet radiation action and photodegradation.

General Information			
Additive	UV Stabilizer		
Features	Bimodal Molecular Weight Distribution		
	Good UV Resistance		
	High ESCR (Stress Crack Resist.)		
	High Molecular Weight		
Uses	Piping		
Agency Ratings	FDA 21 CFR 177.1520		
	ISO 12162 PE 80		
Appearance	Blue		
Processing Method	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 D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Compression Molded)	62		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, Compression Molded	22.0	MPa	
Break, Compression Molded	36.0	MPa	
Tensile Elongation			ASTM D638
Yield, Compression Molded	12	%	
Break, Compression Molded	910	%	
Flexural Modulus - 1% Secant (Compression Molded)	1090	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Compression Molded)	260	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, Compression Molded)	69.0	°C	ASTM D648
Vicat Softening Temperature	122	°C	ASTM D1525 ¹
NOTE			
1.	Loading 1 (10 N)		

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