Braskem PE GM5010T2

High Density Polyethylene

Braskem

Message:

The GM 5010 T2 is a High Density Polyethylene compounding with high molar mass, specially developed for the manufacturing of extruded pipes. This resin is produced with bimodal technology, it has excellent mechanical properties, besides excellent resistance 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. GM 5010 T2 contains carbon black pigment that guarantees resistance against photodegradation.

General Information	
Additive	Carbon Black (2%)
Features	Good Crack Resistance Good UV Resistance High Density High Molecular Weight
Uses	Cable Jacketing Geo Membranes Irrigation Applications Mining Applications Piping
Agency Ratings	ASTM D 3350 PE375475C ISO 12162 PE 80 ISO 9080 PE 80
Forms	Pellets
Processing Method	Extrusion Pipe Extrusion

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.955	g/cm³	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
Carbon Black Content	2.0 to 2.5	%	ASTM D1603
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	23.0	MPa	
Break, Compression Molded	34.0	MPa	
Tensile Elongation			ASTM D638
Yield, Compression Molded	9.1	%	
Break, Compression Molded	800	%	
Flexural Modulus - 1% Secant (Compression Molded)	1090	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (Compression Molded)	220	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (0.45 MPa, Unannealed, Compression Molded)	70.0	°C	ASTM D648
Vicat Softening Temperature	124	°C	ASTM D1525 [1]
NOTE			
1.	Loading 1 (10 N)		

Recommended distributors for this material

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