

## Braskem GM5010T2B HDPE High Density Extrusion Polyethylene

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Pipe Grade

### Material Notes:

GM5010T2B is a high-density polyethylene compound 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 the 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 a blue color and contains additives to protect it against ultraviolet radiation action and photodegradation. Its applications include blue PE 80 pressure pipes for water branch lines for buildings and distribution and adductors water systems.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Braskem-GM5010T2B-HDPE-High-Density-Extrusion-Polyethylene.php](http://www.lookpolymers.com/polymer_Braskem-GM5010T2B-HDPE-High-Density-Extrusion-Polyethylene.php)

Physical Properties	Metric	English	Comments
Density	0.947 g/cc	0.0342 lb/in <sup>3</sup>	ASTM-D792
ESCR 100% Igepal®	>= 1000 hour @Thickness 2.00 mm, Temperature 50.0 °C	>= 1000 hour @Thickness 0.0787 in, Temperature 122 °F	0.3 mm notched-plaques; ASTM-D1693
Melt Flow	0.45 g/10 min @Load 5.00 kg, Temperature 190 °C	0.45 g/10 min @Load 11.0 lb, Temperature 374 °F	ASTM-D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	62	62	ASTM-D2240
Tensile Strength at Break	36.0 MPa	5220 psi	ASTM-D638
Tensile Strength, Yield	22.0 MPa	3190 psi	ASTM-D638
Elongation at Break	910 %	910 %	ASTM-D638
Elongation at Yield	12 %	12 %	ASTM-D638
Flexural Modulus, 1% Secant	1090 MPa	158000 psi	ASTM-D790
Izod Impact, Notched	2.60 J/cm	4.87 ft-lb/in	ASTM-D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	69.0 °C	156 °F	ASTM-D648
Vicat Softening Point	122 °C @Load 1.02 kg	252 °F @Load 2.25 lb	ASTM-D1525

## Contact Songhan Plastic Technology Co.,Ltd.

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