Braskem PE GP 100 BK

High Density Polyethylene

Braskem

Message:

GP100BK 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 stress cracking. This resin has MRS (Minimum Required Strength) of 10 MPa, according to ISO 9080, and is classified as PE 100, according to ISO 12162.
GP100BK contains carbon black that protects it against ultraviolet radiation action and photodegradation.
Meets the requirements of NBR 15561:07.
Application:
Black PE 100 pressure pipes for water distribution, underwater emissaries and pressurized sewer systems; jacketing of underwater cables; pipes for mining.

General Information	
Additive	Carbon Black (2%)
Features	Food Contact Acceptable Good UV Resistance High Density High ESCR (Stress Crack Resist.) High Molecular Weight
Uses	Piping
Agency Ratings	FDA 21 CFR 177.1520 ISO 12162 PE 100 ISO 9080 PE 100
Appearance	Black
Forms	Pellets
Processing Method	Extrusion Pipe Extrusion

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.960	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	0.22	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (50°C, 2.00 mm, 100% Igepal, Compression Molded, F50)	> 1000	hr	ASTM D1693
Carbon Black Content	2.0 to 2.5	%	ASTM D1603
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	35.0	MPa	
Tensile Elongation			ASTM D638
Yield, Compression Molded	7.8	%	
Break, Compression Molded	780	%	
Flexural Modulus - 1% Secant (Compression Molded)	1260	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (Compression Molded)	290	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	126	°C	ASTM D1525 [1]

NOTE	
1.	Loading 1 (10 N)

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

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WECHAT