Braskem PE GP100BLXP

High Density Polyethylene

Braskem

Message:

GP100BLXP 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 excellent mechanical properties and 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. GP100BLXP is manufactured in blue color and contains additives to protect it against ultraviolet radiation action and photodegradation. Meets the requirements of NBR 15561:07 and ISO 4427:07.
Application:
Blue PE 100 pressure pipes for water branch lines, distribution and adductor water systems.
Process:
Pipe Extrusion.

General Information			
Additive	UV stabilizer		
Features	UV Stabilized High ESCR (Stress Cracking Resistance) High molecular weight Bimodal molecular weight distribution		
Uses	Piping system		
Agency Ratings	FDA 21 CFR 177.1520 ISO 12162 PE 100 ISO 4427 NBR 15561		
Appearance	Blue		
Processing Method	Pipeline extrusion molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	0.949	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	0.25	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance			ASTM D1693
50°C, 2.00mm, 10% Igepal, molded, F50	> 1000	hr	ASTM D1693
50°C, 2.00mm, 100% Igepal, molded, F50	> 1000	hr	ASTM D1693
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D, Compression Molded)	65		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength			ASTM D638
Yield, molding	24.0	MPa	ASTM D638
Fracture, molding	38.0	MPa	ASTM D638
Tensile Elongation			ASTM D638

Yield, molding	10	%	ASTM D638
Fracture, molding	1400	%	ASTM D638
Flexural Modulus - 1% Secant (Compression Molded)	1030	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (Compression Molded)	No Break		ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (0.45 MPa, Unannealed, Compression Molded)	67.0	°C	ASTM D648
Vicat Softening Temperature	126	°C	ASTM D1525 [1]

NOTE	
1.	压 力1 (10N)

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