Braskem PE GM7040GCF

High Density Polyethylene

Braskem

Message:

GM7040GCF is a High Density Polyethylene compound specially developed for the manufacturing of extruded pipes for gas pressurized line. 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. The resin has MRS (Minimum Required Strength) of 8 MPa according to ISO 9080 and is classified as PE 80 according to ISO 12162. GM7040GCF is manufactured in yellow color with heavy metal free pigments, and contains additives to protect it against ultraviolet radiation action and photodegradation. Meets the requirements of NBR 14462:00 and ISO 4437:07.
Application:
Yellow PE 80 pressure pipes for gas distribution; jacketing of underwater cables.
Process:
Pipe Extrusion.

General Information			
Additive	UV stabilizer		
Features	UV Stabilized High ESCR (Stress Cracking Resistance) High molecular weight Bimodal molecular weight distribution		
Uses	Cable sheath Piping system		
Agency Ratings	ISO 12162 PE 80 ISO 4427 NBR 14462		
Appearance	Yellow		
Processing Method	Pipeline extrusion molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	0.947	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 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, molding	23.0	MPa	ASTM D638
Fracture, molding	37.0	MPa	ASTM D638
Tensile Elongation			ASTM D638

Yield, molding	9.2	%	ASTM D638
Fracture, molding	770	%	ASTM D638
Flexural Modulus - 1% Secant (Compression Molded)	1080	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (Compression Molded)	240	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (0.45 MPa, Unannealed, Compression Molded)	68.0	°C	ASTM D648
Vicat Softening Temperature	122	°C	ASTM D1525 [1]
NOTE			
1.	压 力1 (10N)		

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China