Braskem PE GM5255

High Density Polyethylene

Braskem

Message:

GM5255 is a high density polyethylene developed for the production of corrugated pipes. It is produced with bimodal technology and shows excellent mechanical properties and resistance to stress cracking, high resistance to oxidative degradation and excellent processability.
Application:
Thin-wall and double-wall corrugated pipes for non-pressure drainage and sewage; underground conduits for power and communication cables; blends for irrigation pipes.
Process:
Pipe extrusion.

General Information			
Features	High ESCR (Stress Cracking Resistance) Workability, good Bimodal molecular weight distribution		
Uses	Bellows Catheter Piping system Mixing		
Agency Ratings	FDA 21 CFR 177.1520		
Processing Method	Pipeline extrusion molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	0.952	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.25	g/10 min	ASTM D1238
190°C/21.6 kg	24	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance			ASTM D1693
50°C, 2.00mm, 10% Igepal, molded, F50	240	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)	62		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength			ASTM D638
Yield, molding	24.0	MPa	ASTM D638
Fracture, molding	34.0	MPa	ASTM D638
Flexural Modulus - 1% Secant (Compression Molded)	1220	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**

Notched Izod Impact (Compression Molded)	110	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (0.45 MPa, Unannealed, Compression Molded)	69.0	°C	ASTM D648
Vicat Softening Temperature	125	°C	ASTM D1525 [1]
Oxidation Induction Time [2] (200°C)	> 25	min	ASTM D3895
NCLS [3]	> 50	hr	ASTM F2136

NOTE	
1.	压 力1 (10N)
2.	Compression Molded
3.	Compression Molded

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