Braskem PE GM5340PRK

High Density Polyethylene

Braskem

Message:

The GM 5340 PRK is a High Density Polyethylene compounding specially developed for the manufacturing of pipes, underground conduits, steel pipe coating, and insulation for wires and cables. This resin is produced with bimodal technology, it has excellent mechanical properties, besides excellent resistance to stress cracking. GM 5340 PRK contains carbon black pigment that guarantees resistance against photodegradation. The amount and the type of carbon black used guarantee a high UV absorption coefficient. It contains especial additive package against copper catalytic oxidation.
Application:
Jacketing for wires and optic fiber metallic cables; insulation of copper wires and cables; self-propelled irrigation pipes; localized irrigation pipes; ducts for mining.
Process:
Extrusion.

General Information	
Additive	Antioxidant 2 Carbon Black (3%)
Features	Antioxidant Good Crack Resistance Good UV Resistance High Density
Uses	Cable Jacketing Conduit Pipe Coatings Piping
Forms	Pellets
Processing Method	Extrusion Pipe Extrusion

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.959	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.55	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance [1] (50°C, 2.00 mm, 10% Igepal, Compression Molded, F50)	> 1000	hr	ASTM D1693B
Carbon Black Content	3.0	%	ASTM D1603
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D, Compression Molded)	61		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**

Tensile Strength			ASTM D638
Yield, Compression Molded	23.0	MPa	
Break, Compression Molded	28.0	MPa	
Tensile Elongation			ASTM D638
Yield, Compression Molded	9.9	%	
Break, Compression Molded	840	%	
Flexural Modulus - 1% Secant (Compression Molded)	980	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (Compression Molded)	85	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	121	°C	ASTM D1525 [2]
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	> 1.0E+15	ohms·cm	ASTM D257
Dielectric Strength	28	kV/mm	ASTM D149
Dielectric Constant (1 kHz)	2.60		ASTM D150
Dissipation Factor (1 kHz)	1.0E-3		ASTM D150
Additional Information	**Nominal Value**	**Unit**	**Test Method**
UV Absorption Coefficient	> 4000	Abs/cm	ASTM D3349
NOTE			
1.	notched plaques		
2.	Loading 1 (10 N)		

Recommended distributors for this material

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