

Braskem PE GM5240PR

High Density Polyethylene

Braskem

Message:

GM5240PR is a High Density Polyethylene compound specially developed for the manufacturing of pipes, underground conduits, and steel pipe coating. This resin is produced with bimodal technology and shows excellent mechanical properties and resistance to stress cracking. GM5240PR contains carbon black pigment that protects it against ultraviolet radiation action and photodegradation.

Application:

Triple-layer coating for metallic pipes; localized irrigation pipes; ducts for mining.

Process:

Extrusion

General Information	
Additive	Carbon Black (2%)
Features	High Density
Uses	Piping
Agency Ratings	FDA 21 CFR 177.1520
Forms	Pellets
Processing Method	Compression Molding Extrusion

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.957	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	0.55	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (2.00 mm, 100% Igepal, Compression Molded, F50)	> 1000	hr	ASTM D1693
Carbon Black Content	2.4	%	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
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Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Compression Molded)	85	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
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Deflection Temperature Under Load (0.45 MPa, Unannealed, Compression Molded)	68.0	°C	ASTM D648
Vicat Softening Temperature	121	°C	ASTM D1525 ¹
Additional Information	Nominal Value	Unit	Test Method
UV Absorption Coefficient	> 3000	Abs/cm	ASTM D3349
NOTE			

1. Loading 1 (10 N)

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