



Syncure™ S1044B Black

Crosslinked Polyethylene

Key Characteristics

Product Description

Catalyst Masterbatch component for PolyOne's Syncure™ system, which is a two-step, silane-grafted, moisture-crosslinkable polyethylene system.

General

Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East	• Europe	
	• Asia Pacific	• North America	
Uses	• Wire & Cable Applications		
Appearance	• Black		
Forms	• Pellets		

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	1.04 g/cm ³	1.04 g/cm ³	ASTM D1505
Apparent Density ²	0.60 g/cm ³	0.60 g/cm ³	Internal Method
Melt Mass-Flow Rate (MFR) ³ (190°C/2.16 kg)	0.49 g/10 min	0.49 g/10 min	ASTM D1238

Additional Information

Gel values are >70, and were measured on a 90 phr S1054A / 10 phr S1044B Syncure System; and cured by autoclave for 9 hours.

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	160 °F	71.1 °C
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr
Rear Temperature	400 to 420 °F	204 to 216 °C
Middle Temperature	340 to 400 °F	171 to 204 °C
Front Temperature	350 to 400 °F	177 to 204 °C
Nozzle Temperature	350 to 420 °F	177 to 216 °C
Mold Temperature	80.0 to 150 °F	26.7 to 65.6 °C

Notes

¹ Typical values are not to be construed as specifications.

² Geon® 1169

³ Procedure A

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