

## 3M Scotchcast™ 2130 Flame-Retardant Compound

Category : Other Engineering Material

### Material Notes:

3M Scotchcast Flame-Retardant Compound 2130 is a two-part polyurethane resin designed to replace the cable jacket when splicing or repairing mine and portable cables. Its unique formulation makes it particularly suited to withstand the rugged conditions under which mine and portable cables must operate. When used in accordance with the appropriate kit configuration, 2130 Compound conforms to MSHA 30 CFR 18.64. Flame-Retardant 2130 Compound is also used as the insulating material for cable splices operating at up to 1000 volts and designed for 90°C continuous use 130°C overload. Information provided by 3M

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_3M-Scotchcast-2130-Flame-Retardant-Compound.php](http://www.lookpolymers.com/polymer_3M-Scotchcast-2130-Flame-Retardant-Compound.php)

Physical Properties	Metric	English	Comments
Density	1.215 g/cc	0.04389 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	83	83	ASTM D2240
Tensile Strength at Break	7.45 MPa	1080 psi	ASTM D412
Elongation at Break	377 %	377 %	ASTM D412

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	130 °C	266 °F	
Minimum Service Temperature, Air	90.0 °C	194 °F	
Glass Transition Temp, Tg	-80.0 °C	-112 °F	

Electrical Properties	Metric	English	Comments
Dielectric Constant	5.07	5.07	ASTM D150
	@Frequency 60.0 Hz, Temperature 23.0 °C	@Frequency 60.0 Hz, Temperature 73.4 °F	
	5.82	5.82	
	@Frequency 60.0 Hz, Temperature 60.0 °C	@Frequency 60.0 Hz, Temperature 140 °F	ASTM D150
	6.24	6.24	ASTM D150
	@Frequency 60.0 Hz, Temperature 90.0 °C	@Frequency 60.0 Hz, Temperature 194 °F	
Dielectric Strength	14.6 kV/mm	371 kV/in	ASTM D149

Processing Properties	Metric	English	Comments
Cure Time	960 - 1440 min	16.0 - 24.0 hour	De-Mold Time: 1.5-2 hrs
	@Temperature 21.0 °C	@Temperature 69.8 °F	
	1440 - 1800 min	24.0 - 30.0 hour	De-Mold Time: 3.5-4 hrs
	@Temperature 10.0 °C	@Temperature 50.0 °F	
	>= 2160 min	>= 36.0 hour	De-Mold Time: 6-8 hrs
	@Temperature 0.000 °C	@Temperature 32.0 °F	
Gel Time	17.0 min	17.0 min	3M Method TM-67

Descriptive Properties	Value	Comments
Appearance	Black	

## Contact Songhan Plastic Technology Co.,Ltd.

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