

## Bulk Molding Compounds BMC 5592 Arc, Track, and Weather Resistant Polyester

Category : Polymer , Thermoset , Polyester, TS , Thermoset Polyester Glass and Mineral Filled BMC

### Material Notes:

BMC 5592 molding compound is an arc, track and weather resistant grade polyester compound suitable for compression, transfer and stuffer injection molding. It has excellent impact strength, flame resistance and electrical characteristics. Typical applications include third rail and other rapid transit insulators.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Bulk-Molding-Compounds-BMC-5592-Arc-Track-and-Weather-Resistant-Polyester.php](http://www.lookpolymers.com/polymer_Bulk-Molding-Compounds-BMC-5592-Arc-Track-and-Weather-Resistant-Polyester.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.87 g/cc	1.87 g/cc	
Water Absorption	0.10 %	0.10 %	24 hours, 23°C
Linear Mold Shrinkage	0.0020 - 0.0030 cm/cm	0.0020 - 0.0030 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Barcol	35 - 45	35 - 45	
Tensile Strength, Ultimate	68.9 - 89.6 MPa	10000 - 13000 psi	
Flexural Strength	159 - 186 MPa	23000 - 27000 psi	
Compressive Strength	152 - 165 MPa	22000 - 24000 psi	
Izod Impact, Notched	6.94 - 8.01 J/cm	13.0 - 15.0 ft-lb/in	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	>= 260 °C	>= 500 °F	
Flammability, UL94	V-0	V-0	
	@Thickness 6.35 mm	@Thickness 0.250 in	
	V-0	V-0	
	@Thickness 3.17 mm	@Thickness 0.125 in	
	V-0	V-0	
	@Thickness 1.59 mm	@Thickness 0.0625 in	
	V-0	V-0	
	@Thickness 1.02 mm	@Thickness 0.0400 in	

Flammability Test Thermal Properties	50 Metric	50 English	burn time, [sec] Comments
	200	200	ignition time, [sec]

Electrical Properties	Metric	English	Comments
Dielectric Strength	14.6 - 15.7 kV/mm	370 - 400 kV/in	Short Time
Arc Resistance	195 sec	195 sec	
Track Resistance	>= 60000 sec	>= 60000 sec	inclined plane, 2500 volts
Comparative Tracking Index	>= 600 V	>= 600 V	

Processing Properties	Metric	English	Comments
Mold Temperature	138 - 166 °C	280 - 330 °F	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China