

## Hybrid Plastics FireQuench® PM 1287 Resin

Category : Polymer , Thermoset , Filled/Reinforced Thermoset

### Material Notes:

FireQuench® PM1287 is an optically transparent, fire retardant hybrid nanocomposite resin that can serve as a replacement for standard epoxy-vinyl ester and related resins. It can be employed as an unfilled, nanocomposite resin or it can be filled and utilized with reinforcements such as glass fiber. FireQuench® PM1287 has significantly improved thermal and flame retardant properties when compared to all other high temperature thermoset resins. Information provided by Hybrid Plastics

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Hybrid-Plastics-FireQuench-PM-1287-Resin.php](http://www.lookpolymers.com/polymer_Hybrid-Plastics-FireQuench-PM-1287-Resin.php)

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in <sup>3</sup>	
Viscosity	100 cP	100 cP	

Mechanical Properties	Metric	English	Comments
Elongation at Break	1.7 %	1.7 %	composite
	3.5 %	3.5 %	resin
Flexural Strength	93.169 MPa @Temperature 23.0 Â°C	13513 psi @Temperature 73.4 Â°F	resin
	463 MPa @Temperature 23.0 Â°C	67200 psi @Temperature 73.4 Â°F	composite
Flexural Modulus	0.965 GPa @Temperature 23.0 Â°C	140 ksi @Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
Heat Distortion Temperature	<= 600 Â°C	<= 1110 Â°F	

Optical Properties	Metric	English	Comments
Transmission, Visible	90 %	90 %	transparent; thickness not quantified

Processing Properties	Metric	English	Comments
Gel Time	45.0 - 60.0 min @Temperature 60.0	45.0 - 60.0 min @Temperature 140 Â°F	with 0.2%wt catalyst load

Processing Properties	<sup>Å</sup> °C Metric	English	Comments
Shelf Life	24.0 - 36.0 Month	24.0 - 36.0 Month	w/o catalyst

## Contact Songhan Plastic Technology Co.,Ltd.

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