

## Pyrotek RFM Light density refractory composite material

Category : Ceramic

**Material Notes:**

The RFM material is a composite made of fiberglass fabric and a wollastonite slurry. It can be shaped to very complex and thin parts. It has a very good behavior against molten aluminum alloys. Applications Distribution troughs for continuous casting machine Rigid molten metal distributor Float bottom part Casting tip Auto pour ladle Advantages No pre-heating required Excellent mechanical properties Excellent resistance to erosion Can be molded Non-wetting by molten aluminum High temperature service Information provided by Pyrotek.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Pyrotek-RFM-Light-density-refractory-composite-material.php](http://www.lookpolymers.com/polymer_Pyrotek-RFM-Light-density-refractory-composite-material.php)

Physical Properties	Metric	English	Comments
Density	1.60 g/cc	0.0578 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.0214 GPa	3.10 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	0.900 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	0.500 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
Thermal Conductivity	0.430 W/m-K	2.98 BTU-in/hr-ft <sup>2</sup> - $^{\circ}\text{F}$	
	@Temperature 500 $^{\circ}\text{C}$	@Temperature 932 $^{\circ}\text{F}$	
Maximum Service Temperature, Air	1100 $^{\circ}\text{C}$	2010 $^{\circ}\text{F}$	

## Contact Songhan Plastic Technology Co.,Ltd.

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