

3M Nextel™ CF-40 Woven Fabric 550

Category : Ceramic , Oxide , Aluminum Oxide

Material Notes:

Information provided by 3M

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-Nextel-CF-40-Woven-Fabric-550.php

Physical Properties	Metric	English	Comments
Density	3.03 g/cc	0.109 lb/in ³	
Permeability	35	35	[ft ³ /min/ft ²], Air w/o sizing
Thickness	940 microns	37.0 mil	
Fiber Count	2220 dtex	2000 denier	1/2

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	2000 MPa	290000 psi	filament 25.4mm
Tensile Modulus	193 GPa	28000 ksi	filament
Tear Strength	45.1 kN/m	258 pli	Fill, Breaking Strength w/o Sizing
	59.8 kN/m	342 pli	Warp, Breaking Strength w/o Sizing

Thermal Properties	Metric	English	Comments
CTE, linear	5.30 $\mu\text{m}/\text{m}\cdot\text{°C}$ @Temperature 100 - 1100 °C	2.94 $\mu\text{in}/\text{in}\cdot\text{°F}$ @Temperature 212 - 2010 °F	
Melting Point	1800 °C	3270 °F	

Optical Properties	Metric	English	Comments
Refractive Index	1.602	1.602	

Component Elements Properties	Metric	English	Comments
Al2O3	73 %	73 %	
SiO2	27 %	27 %	

Electrical Properties	Metric	English	Comments
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Electrical Properties Dielectric Constant	^{S, R} Metric	^{S, R} English	Comments
	@Frequency 9.375e+9 Hz	@Frequency 9.375e+9 Hz	

Contact Songhan Plastic Technology Co.,Ltd.

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