

3M Nextel™ AF-40 Industrial Woven Fabric 312

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-AF-40-Industrial-Woven-Fabric-312.php

Physical Properties	Metric	English	Comments
Density	2.70 g/cc	0.0975 lb/in ³	
Permeability	35	35	[ft ³ /min/ft ²], Air w/o sizing
Thickness	940 microns	37.0 mil	
Fiber Count	2000 dtex	1800 denier	1/2

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	1700 MPa	247000 psi	filament 25.4mm
Tensile Modulus	152 GPa	22000 ksi	filament
Tear Strength	33.3 kN/m	190 pli	Fill, Breaking Strength w/o Sizing
	53.0 kN/m	302 pli	Warp, Breaking Strength w/o Sizing

Thermal Properties	Metric	English	Comments
CTE, linear	3.00 µm/m-°C @Temperature 25.0 - 500 °C	1.67 µin/in-°F @Temperature 77.0 - 932 °F	
Specific Heat Capacity	1.05 J/g-°C @Temperature 500 °C	0.251 BTU/lb-°F @Temperature 932 °F	
Melting Point	1800 °C	3270 °F	

Optical Properties	Metric	English	Comments
Refractive Index	1.568	1.568	

Component Elements Properties	Metric	English	Comments
Al2O3	62.5 %	62.5 %	
B2O3	13 %	13 %	

Component Elements Properties	Metric	English	Comments
Electrical Properties	Metric	English	Comments
Dielectric Constant	5.2	5.2	
	@Frequency 9.375e+9 Hz	@Frequency 9.375e+9 Hz	
Dissipation Factor	0.018	0.018	
	@Frequency 9.375e+9 Hz	@Frequency 9.375e+9 Hz	

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