

3M Nextel™ DF-19 Woven Fabric 610

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-DF-19-Woven-Fabric-610.php

Physical Properties	Metric	English	Comments
Density	3.90 g/cc	0.141 lb/in ³	
Permeability	13	13	[ft ³ /min/ft ²], Air w/o sizing
Thickness	480 microns	18.9 mil	
Fiber Count	3330 dtex	3000 denier	roving

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	3100 MPa	450000 psi	filament 25.4mm
Tensile Modulus	379 GPa	55000 ksi	filament
Tear Strength	45.1 kN/m	258 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	8.00 μm/m-°C @Temperature 100 - 1100 °C	4.44 μin/in-°F @Temperature 212 - 2010 °F	
Melting Point	2000 °C	3630 °F	

Optical Properties	Metric	English	Comments
Refractive Index	1.74	1.74	

Component Elements Properties	Metric	English	Comments
Al2O3	99 %	99 %	

Electrical Properties	Metric	English	Comments
Dielectric Constant	9.0	9.0	

Electrical Properties

@Frequency 9.375e+9
Metric
Hz

@Frequency 9.375e+9
English
Hz

Comments

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