

3M Nextel™ DF-11 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-11-Woven-Fabric-610.php

Physical Properties	Metric	English	Comments
Density	3.90 g/cc	0.141 lb/in ³	
Permeability	20	20	[ft ³ /min/ft ²], Air w/o sizing
Thickness	280 microns	11.0 mil	
Fiber Count	1670 dtex	1500 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	40.2 kN/m	230 pli	Warp, Breaking Strength w/o Sizing
	45.1 kN/m	258 pli	Fill, 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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