

3M Nextel™ BF-20 Woven Fabric 440

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-BF-20-Woven-Fabric-440.php

Physical Properties	Metric	English	Comments
Density	3.05 g/cc	0.110 lb/in ³	
Permeability	15	15	[ft ³ /min/ft ²], Air w/o sizing
Thickness	510 microns	20.1 mil	
Fiber Count	2220 dtex	2000 denier	roving

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	2000 MPa	290000 psi	filament 25.4mm
Tensile Modulus	186 GPa	27000 ksi	filament
Tear Strength	38.2 kN/m	218 pli	Fill, Breaking Strength w/o Sizing
	44.1 kN/m	252 pli	Warp, Breaking Strength w/o Sizing

Thermal Properties	Metric	English	Comments
CTE, linear	5.30 μm/m-°C @Temperature 100 - 1100 °C	2.94 μin/in-°F @Temperature 212 - 2010 °F	
Specific Heat Capacity	1.13 J/g-°C @Temperature 500 °C	0.270 BTU/lb-°F @Temperature 932 °F	
Melting Point	1800 °C	3270 °F	

Optical Properties	Metric	English	Comments
Refractive Index	1.614	1.614	

Component Elements Properties	Metric	English	Comments
Al2O3	70 %	70 %	
B2O3	2.0 %	2.0 %	

Component Elements Properties	Metric	English	Comments
Electrical Properties	Metric	English	Comments
Dielectric Constant	5.7	5.7	
	@Frequency 9.375e+9 Hz	@Frequency 9.375e+9 Hz	
Dissipation Factor	0.015	0.015	
	@Frequency 9.375e+9 Hz	@Frequency 9.375e+9 Hz	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China