

3M Nextel™ XN-513 Woven Fabric 720

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-XN-513-Woven-Fabric-720.php

Physical Properties	Metric	English	Comments
Density	3.40 g/cc	0.123 lb/in ³	
Permeability	20	20	[ft ³ /min/ft ²], Air w/o sizing
Thickness	330 microns	13.0 mil	
Fiber Count	1670 dtex	1500 denier	roving

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	2100 MPa	305000 psi	filament 25.4mm
Tensile Modulus	248 GPa	36000 ksi	filament
Tear Strength	28.4 kN/m	162 pli	Warp, Breaking Strength w/o Sizing
	28.4 kN/m	162 pli	Fill, Breaking Strength w/o Sizing

Thermal Properties	Metric	English	Comments
CTE, linear	6.00 µm/m-°C	3.33 µin/in-°F	
	@Temperature 100 - 1100 °C	@Temperature 212 - 2010 °F	
Melting Point	1800 °C	3270 °F	

Optical Properties	Metric	English	Comments
Refractive Index	1.67	1.67	

Component Elements Properties	Metric	English	Comments
Al2O3	85 %	85 %	
SiO2	15 %	15 %	

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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