

AGY ADVANTEX® Generic Glass Fiber

Category : Ceramic , Glass , Glass Fiber , Oxide , Silicon Oxide , Other Engineering Material , Composite Fibers

Material Notes:

OC/AGY E-CR glass. Various silanes and starch oil are used as binders. Acid resistant. Lower alkali resistance than VeTron® and ZenTron® glass fibers. Information provided by AGY Holding Corp.

Order this product through the following link:

http://www.lookpolymers.com/polymer_AGY-ADVANTEX-Generic-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	2.624 g/cc	0.09480 lb/in ³	
Water Absorption	0.00 %	0.00 %	
Loss On Ignition	0.50 - 1.5 %	0.50 - 1.5 %	Varies according to size type
Filament Diameter	9.0 - 30 µm	9.0 - 30 µm	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	2450 MPa	355000 psi	
	@Temperature 371 °C	@Temperature 700 °F	
	3200 - 3750 MPa	464000 - 544000 psi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Elongation at Break	4.5 %	4.5 %	in 50 mm
Modulus of Elasticity	80.0 GPa	11600 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	5.80 µm/m-°C	3.22 µin/in-°F	average, isotropic
	@Temperature -30.0 - 300 °C	@Temperature -22.0 - 572 °F	
Specific Heat Capacity	0.970 J/g-°C	0.232 BTU/lb-°F	
	@Temperature 200 °C	@Temperature 392 °F	
Melting Point	1171 °C	2140 °F	Liquidus
Liquidus	1171 °C	2140 °F	
Maximum Service Temperature, Air	740 °C	1360 °F	
Maximum Service Temperature, Inert	740 °C	1360 °F	
Transformation Temperature, Tg	750 °C	1380 °F	

Thermal Properties	Metric	English	Comments
Softening Point	916 °C	1699 °F	

Optical Properties	Metric	English	Comments
Refractive Index	1.56	1.56	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	3.84e+14 ohm-cm	3.84e+14 ohm-cm	
Dielectric Constant	7.2	7.2	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	7.5	7.5	
	@Frequency 1e+10 Hz	@Frequency 1e+10 Hz	
Dielectric Strength	10.0 kV/mm	254 kV/in	
Dissipation Factor	0.0028	0.0028	

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