

AGY ZenTron® S-2 Generic S-Glass Fiber

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

Material Notes:

S-2 glass and S-glass have the same composition. S-glass is no longer made by AGY, but used to have a reactive epoxy size. Various silanes and starch oil are used as binders. Acid resistant. Moderate alkali resistance. Information provided by AGY Holding Corp.

Order this product through the following link:

http://www.lookpolymers.com/polymer_AGY-ZenTron-S-2-Generic-S-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Bulk Density	2.48 g/cc	0.0896 lb/in ³	
Density	2.46 g/cc	0.0889 lb/in ³	
Water Absorption	0.00 %	0.00 %	
Loss On Ignition	0.10 - 1.4 %	0.10 - 1.4 %	Varies according to size type
Filament Diameter	5.0 - 25 µm	5.0 - 25 µm	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	4445 MPa	644700 psi	
	@Temperature 371 °C	@Temperature 700 °F	
	4890 MPa	709000 psi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Elongation at Break	5.7 %	5.7 %	in 50 mm
Modulus of Elasticity	86.9 GPa	12600 ksi	
Poissons Ratio	0.22	0.22	

Thermal Properties	Metric	English	Comments
CTE, linear	1.60 µm/m-°C	0.889 µin/in-°F	average, isotropic
	@Temperature -30.0 - 250 °C	@Temperature -22.0 - 482 °F	
Specific Heat Capacity	0.737 J/g-°C	0.176 BTU/lb-°F	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	0.935 J/g-°C	0.223 BTU/lb-°F	
	@Temperature 200 °C	@Temperature 392 °F	
		7.63 - 9.72 BTU-in/hr-	

Thermal Properties	Metric	English	Comments
Melting Point	1466 °C	2671 °F	Liquidus
Liquidus	1466 °C	2671 °F	
Maximum Service Temperature, Air	875 °C	1610 °F	Well above Tg, due to reversible phase separation
Maximum Service Temperature, Inert	875 °C	1610 °F	
Transformation Temperature, Tg	845 °C	1550 °F	
Softening Point	1056 °C	1933 °F	

Optical Properties	Metric	English	Comments
Refractive Index	1.521	1.521	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	9.05e+12 ohm-cm	9.05e+12 ohm-cm	
Dielectric Constant	5.2	5.2	
	@Frequency 1e+10 Hz	@Frequency 1e+10 Hz	
Dielectric Strength	5.3	5.3	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dissipation Factor	18.0 kV/mm	457 kV/in	
Dissipation Factor	0.0020	0.0020	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

Descriptive Properties	Value	Comments
Color	Clear	

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