

Material: FR11003-XXX (-XXX represents thickness in mils)

Description: Encapsulated Shim/Gasket

Typical Properties:

Property	Values			Imperial Unit (Metric Unit)	Test Method (if applicable)
	FR11003-005	FR11003-010	FR11003-030		
Thickness	5 (0.13)	10 (0.25)	30 (0.76)	mil (mm)	n/a
Density	0.0637 (1764.1)	0.0641 (1773.0)	0.0548 (1517.7)	lb/in ³ (kg/m ³)	ASTM D792-20
Tensile Strength	18.5	15.0	21.1	ksi	ASTM D882-18
Modulus	Longitudinal:	691	631		
	Transverse:	2010	2008		
Poisson's Ratio	0.344	0.317	0.354		
Elongation at Break	12	6	11	%	
Dielectric Breakdown Voltage	11424	16418	>50000	V	ASTM D149-20
Dielectric Strength	2050	1665	1667	V/mil	
Dielectric Constant @ 10 kHz	2.083	2.170	2.398	n/a	ASTM D150-18
Dissipation Factor @ 10 kHz	0.002	0.001	0.001		
Thermal Conductivity	1.3436 (0.1938)	1.4070 (0.2029)	0.5219 (0.0753)	BTU[IT]·in/h·ft ² ·°F (W/m·K)	ASTM E1530-19
Glass Transition Temperature (T _g)	"1 st " T _g Point:	31.6 (-0.2)	32.9 (0.5)	n/a	°F (°C)
	"2 nd " T _g Point:	58.6 (14.8)	56.7 (13.7)		
Heat Capacity (C _p) @ 25°C		0.2558 (1.071)	0.2589 (1.084)	0.2687 (1.125)	BTU[IT]/lb·°F (J/g·°C)
	TML:	0.37	0.34	0.59	
Outgassing:	CVCM:	0.02	0.01	0.01	%
	WVR:	0.19	0.12	0.13	

TML = Total Mass Loss

CVCM = Collected Volatile Condensable Materials

WVR = Water Vapor Recovered

Material is RoHS compliant

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Warranty: User is responsible for determining whether the product is fit for a particular purpose and suitable for user's application.

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