

Elektro-Isola G-Etronax PM GPO 3 Polyester, Glass Mat, Red, Sheets

Category : Polymer , Thermoplastic , Polyester, TP

Material Notes:

Description: Good electrical properties such as high breakdown voltage in air and oil and highest arc resistance and tracking resistance.

Self-extinguishing. Low smoke emission, halogen-free. Applications: Used as an insulation material in electrotechnical applications such as plate-enclosed distribution systems, partition plates, and busbar carriers. Information provided by Elektro-Isola

Order this product through the following link:

http://www.lookpolymers.com/polymer_Elektro-Isola-G-Etronax-PM-GPO-3-Polyester-Glass-Mat-Red-Sheets.php

Physical Properties	Metric	English	Comments
Density	1.80 g/cc	0.0650 lb/in ³	24hr/23°C/50% RH; ISO 1183-A; IEC/EN 60893-2 8.1
Water Absorption	0.40 %	0.40 %	24hr/50°C+24hr in water at 23°C, Test Specimen 50x50x3[mm]; ISO 62-1; IEC/EN 60893-2 8.2

Mechanical Properties	Metric	English	Comments
Tensile Strength	75.0 MPa @Thickness >=1.50 mm	10900 psi @Thickness >=0.0591 in	24hr/23°C/50% RH; ISO 527; IEC/EN 60893-2 5.6
Modulus of Elasticity	9.00 GPa @Thickness >=1.50 mm	1310 ksi @Thickness >=0.0591 in	24hr/23°C/50% RH; ISO 178; IEC/EN 60893-2 5.2
Flexural Strength	65.0 MPa @Thickness >=1.50 mm	9430 psi @Thickness >=0.0591 in	1hr/130°C/measured at 130°C; ISO 178; IEC/EN 60893-2 5.1
	170 MPa @Thickness >=1.50 mm	24700 psi @Thickness >=0.0591 in	24hr/23°C/50% RH; ISO 178; IEC/EN 60893-2 5.1
	60.0 MPa @Treatment Temp. 200 °C, Time 3600 sec	8700 psi @Treatment Temp. 392 °F, Time 1.00 hour	ISO 178; IEC/EN 60893-2 5.1
	80.0 MPa @Treatment Temp. 150 °C, Time 3600 sec	11600 psi @Treatment Temp. 302 °F, Time 1.00 hour	ISO 178; IEC/EN 60893-2 5.1
	130 MPa @Treatment Temp. 100 °C,	18900 psi @Treatment Temp. 212 °F,	ISO 178; IEC/EN 60893-2 5.1

Mechanical Properties	Time 3600 sec Metric	Time 1.00 hour English	Comments
	160 MPa	23200 psi	
	@Treatment Temp. 50.0 °C, Time 3600 sec	@Treatment Temp. 122 °F, Time 1.00 hour	ISO 178; IEC/EN 60893-2 5.1
	170 MPa	24700 psi	
	@Treatment Temp. 20.0 °C, Time 3600 sec	@Treatment Temp. 68.0 °F, Time 1.00 hour	ISO 178; IEC/EN 60893-2 5.1
Compressive Strength	240 MPa	34800 psi	24hr/23°C/50% RH; ISO 604; IEC/EN 60893-2 5.3
	@Thickness >=5.00 mm	@Thickness >=0.197 in	
Shear Strength	35.0 MPa	5080 psi	24hr/23°C/50% RH; IEC/EN 60893-2 5.5
	@Thickness >=5.00 mm	@Thickness >=0.197 in	
Izod Impact, Notched (ISO)	40.0 kJ/m ²	19.0 ft-lb/in ²	24hr/23°C/50% RH; ISO 180/2A; IEC/EN 60893-2 5.4.3
	@Thickness >=5.00 mm	@Thickness >=0.197 in	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Inert	155 °C	311 °F	IEC 60216; IEC/EN 60893-2 7.1
	@Thickness 0.000 mm, Time 7.20e+7 sec	@Thickness 0.000 in, Time 20000 hour	
Flammability, UL94	V-0	V-0	IEC/EN 60893-2 7.2; IEC 60695-11-10

Electrical Properties	Metric	English	Comments
Insulation Resistance	1.00e+9 ohm	1.00e+9 ohm	24hr/50°C+24h in water at 23°C; IEC 60167; IEC/EN 60893-2 6.3
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
Dielectric Constant	4.5	4.5	96hr/105°C+1hr/23°C/20%RH; IEC 60250; IEC/EN 60893-2 6.2
	@Thickness <=3.00 mm, Frequency 50.0 Hz	@Thickness <=0.118 in, Frequency 50.0 Hz	
	4.5	4.5	96hr/105°C+1hr/23°C/20%RH; IEC 60250; IEC/EN 60893-2 6.2
	@Thickness <=3.00 mm, Frequency 1.00e+6 Hz	@Thickness <=0.118 in, Frequency 1.00e+6 Hz	
Dielectric Strength	2.40 kV/mm	61.0 kV/in	24hr/23°C/50% RH+1hr/oil 90°C; Parallel; IEC 60245-1; IEC/EN 60893-2 6.1.3.2
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
	10.0 kV/mm	254 kV/in	24hr/23°C/50% RH+1hr/oil 90°C; Perpendicular; IEC 60245-1; IEC/EN 60893-2 6.1.3.1
	@Thickness 3.00 mm	@Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
Dissipation Factor	@Frequency 50.0 Hz	@Frequency 50.0 Hz	96hr/105°C+1hr/23°C/20%RH; IEC 60250; IEC/EN 60893-2 6.2
	0.040	0.040	96hr/105°C+1hr/23°C/20%RH; IEC 60250; IEC/EN 60893-2 6.2
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	600 V	600 V	IEC 60112; IEC/EN 60893-2 6.4
	@Thickness 3.00 mm	@Thickness 0.118 in	

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