Elektro-Isola G-Etronax PM H Polyester, Glass Mat, Creme, Sheets

Category : Polymer , Thermoplastic , Polyester, TP

Material Notes:

Description: A reasonably-priced alternative to other high-temperature types. Low thermal conductivity. Applications: Used as, among other things, thermal insulation plates where high strength properties are requires.Information provided by Elektro-Isola

Order this product through the following link:
http://www.lookpolymers.com/polymer_Elektro-Isola-G-Etronax-PM-H-Polyester-Glass-Mat-Creme-Sheets.php

Physical Properties	Metric	English	Comments
Density	1.60 g/cc	0.0578 lb/in³	24hr/23°C/50% RH; ISO 1183-A; IEC/EN 60893-2 8.1
Water Absorption	0.33 %	0.33 %	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	150 MPa @Thickness >=1.50 mm	21800 psi @Thickness >=0.0591 in	24hr/23°C/50% RH; ISO 527; IEC/EN 60893-2 5.6
Modulus of Elasticity	11.0 GPa @Thickness >=1.50 mm	1600 ksi @Thickness >=0.0591 in	24hr/23°C/50% RH; ISO 178; IEC/EN 60893-2 5.2
Flexural Strength	60.0 MPa @Thickness >=200 mm	8700 psi @Thickness >=7.87 in	ISO 178; IEC/EN 60893-2 5.1
	100 MPa @Thickness >=1.50 mm	14500 psi @Thickness >=0.0591 in	1hr/150°C/measured at 150°C; ISO 178; IEC/EN 60893-2 5.1
	110 MPa @Thickness >=150 mm	16000 psi @Thickness >=5.91 in	ISO 178; IEC/EN 60893-2 5.1
	190 MPa @Thickness >=100 mm	27600 psi @Thickness >=3.94 in	ISO 178; IEC/EN 60893-2 5.1
	240 MPa @Thickness >=50.0 mm	34800 psi @Thickness >=1.97 in	ISO 178; IEC/EN 60893-2 5.1
	250 MPa @Thickness >=20.0 mm	36300 psi @Thickness >=0.787 in	ISO 178; IEC/EN 60893-2 5.1
	250 MPa	36300 psi	24hr/23°C/50% RH; ISO 178; IEC/EN

Mechanical Properties	Metric	English	Comments
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	60893-2 5.1
Compressive Strength	330 MPa @Thickness >=5.00 mm	47900 psi @Thickness >=0.197 in	24hr/23°C/50% RH; ISO 604; IEC/EN 60893-2 5.3
	180 MPa @Treatment Temp. 200 °C, Time 3600 sec	26100 psi @Treatment Temp. 392 °F, Time 1.00 hour	ISO 604; IEC/EN 60893-2 5.3
	260 MPa @Treatment Temp. 150 °C, Time 3600 sec	37700 psi @Treatment Temp. 302 °F, Time 1.00 hour	ISO 604; IEC/EN 60893-2 5.3
	320 MPa @Treatment Temp. 100 °C, Time 3600 sec	46400 psi @Treatment Temp. 212 °F, Time 1.00 hour	ISO 604; IEC/EN 60893-2 5.3
	350 MPa @Treatment Temp. 20.0 °C, Time 3600 sec	50800 psi @Treatment Temp. 68.0 °F, Time 1.00 hour	ISO 604; IEC/EN 60893-2 5.3
	355 MPa @Treatment Temp. 50.0 °C, Time 3600 sec	51500 psi @Treatment Temp. 122 °F, Time 1.00 hour	ISO 604; IEC/EN 60893-2 5.3
Shear Strength	35.0 MPa @Thickness >=5.00 mm	5080 psi @Thickness >=0.197 in	24hr/23°C/50% RH; IEC/EN 60893-2 5.5
Izod Impact, Notched (ISO)	60.0 kJ/m² @Thickness >=5.00 mm	28.6 ft-lb/in² @Thickness >=0.197 in	24hr/23°C/50% RH; ISO 180/2A; IEC/EN 60893-2 5.4.3

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Inert	180 °C @Thickness 0.000 mm, Time 7.20e+7 sec	356 °F @Thickness 0.000 in, Time 20000 hour	IEC 60216; IEC/EN 60893-2 7.1

Electrical Properties	Metric	English	Comments
Insulation Resistance	1.00e+9 ohm @Thickness >=3.00 mm	1.00e+9 ohm @Thickness >=0.118 in	24hr/50°C+24h in water at 23°C; IEC 60167; IEC/EN 60893-2 6.3
Dielectric Constant	4.0 @Thickness <=3.00	4.0 @Thickness <=0.118 in,	96hr/105°C+1hr/23°C/20%RH; IEC

Electrical Properties	Metric	English	Comments
	4.0 @Thickness <=3.00 mm, Frequency 1.00e+6 Hz	4.0 @Thickness <=0.118 in, Frequency 1.00e+6 Hz	96hr/105°C+1hr/23°C/20%RH; IEC 60250; IEC/EN 60893-2 6.2
Dielectric Strength	2.40 kV/mm @Thickness >=3.00 mm	61.0 kV/in @Thickness >=0.118 in	24hr/23°C/50% RH+1hr/oil 90°C; Parallel; IEC 60245-1; IEC/EN 60893-2 6.1.3.2
	10.0 kV/mm @Thickness 3.00 mm	254 kV/in @Thickness 0.118 in	24hr/23°C/50% RH+1hr/oil 90°C; Perpendicular; IEC 60245-1; IEC/EN 60893-2 6.1.3.1
Dissipation Factor	0.010 @Frequency 50.0 Hz	0.010 @Frequency 50.0 Hz	96hr/105°C+1hr/23°C/20%RH; IEC 60250; IEC/EN 60893-2 6.2
	0.010 @Frequency 1.00e+6 Hz	0.010 @Frequency 1.00e+6 Hz	96hr/105°C+1hr/23°C/20%RH; IEC 60250; IEC/EN 60893-2 6.2
Comparative Tracking Index	600 V @Thickness 3.00 mm	600 V @Thickness 0.118 in	IEC 60112; IEC/EN 60893-2 6.4

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