



10G/40 Epoxy Glass Fabric Grade Tufnol

Bay Plastics Datasheet

Sheet

Technical Specification

Physical Properties	Typical Results	Units
Cross Breaking Strength	490	MPa
Impact Strength Notched	60	kJ/m ²
Compressive Strength Flatwise	415	MPa
Compressive Strength Edgewise	300	MPa
Shear Strength Flatwise	355	-
Youngs Modulus	17.7	GPa
Water Absorption		
- 1.6mm thick	5	mg
- 3mm thick	7	mg
- 6mm thick	10	mg
- 12mm thick	15	mg
Electrical Strength Flatwise in Oil at 90°C		
- 1.6mm thick	17	MV/m
- 3mm thick	15	MV/m
- 6mm thick	12	MV/m
Electric Strength Edgewise in Oil at 90°C	75	kV
Insulation Resistance after immersion in water	1x10 ¹¹	ohms
Loss Tangent at 1MHz	0.017	-
Permittivity at 1 MHz	5.0	-
Comparative Tracking Index	285	-
Relative Density	1.90	-
Maximum Working Temperature		
- Continuous	130	°C
- Intermittent	150	°C
Thermal Classification	Class B	-
Thermal Conductivity Through Laminate	0.42	W/(mK)
Thermal Expansion in plane of Laminate	1.1	X10 ⁻⁵ /k
Test methods as BS EN 60893, where applicable		

Rod

Technical Specification

Physical Properties	Typical Results	Units
Flexural Strength	600	MPa
Water Absorption	0.5	mg/cm ²
Insulation Resistance after immersion in water	5x10 ⁵	ohms
Axial Electric Strength in oil at 90°C	70	kV
Relative Density	1.90	-



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Specification

Epoxy Glass Grades	BS EN 60893	NEMA*
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Sheet

10G/40	EP GC 201	G10
10G/41	EP GC 202	FR4
10G/42	EP GC 203	G11
10G/44	EP GC 203	G11

Rod

10G/40	N/A	G10
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The data are typical values and are not intended to represent specifications. Their aim is to guide the user towards a material choice. All statements, technical information and recommendations in this product datasheet are presented in good faith, based upon tests believed to be reliable and practical experience. However, Bay Plastics Ltd cannot guarantee accuracy or completeness of this information, and it is the buyer's responsibility to determine the suitability of products in any given application. Therefore no liability whatsoever shall attach to Bay Plastics Ltd for any infringement of the rights owned or controlled by a third party in intellectual, industrial or other property by reason of application, processing or use of the aforementioned information products by the buyer.

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