

Technical Data Sheet



Glastic® Glasrod HIR

Typical characteristics

- Extremely strong, excellent retention of properties at elevated temperature, easily fabricated
- Cost-Effective
- Dimensionally Stable

Typical industries

- Generator and Motor
- Dry transformers
- 전기 산업
- Electrical Insulating Components
- Switchgear
- Transformer

	Test method	Unit	Guideline value
General properties			
Standard Color			Light Green
Mechanical properties			
Flexural Strength	ASTM D 790	psi	100,000
Tensile Strength	ASTM D 638	psi	90,000
Tensile Modulus	ASTM D 638	psi X 10 ⁶	3
IZOD Impact Strength (notched)	ASTM D 256	ft. lb./in.	60
In-Plane Shear Strength	ASTM D 3914	psi	3,500
Compressive Strength - Axial	ASTM D 695	psi	60,000
Compressive Strength - Transverse	ASTM D 695	psi	16,000
Thermal properties			
Coefficient of Thermal Expansion	ASTM D 696	(in./in.°C) x 10 ⁻⁵	0.6
Thermal Conductivity	ASTM C 177		2
Physical properties			
Specific Gravity	ASTM D 792		1.9
Water Absorption	ASTM D 570	%	0.1
Dielectrical properties			
Arc Resistance	ASTM D 495	sec.	150
Permittivity, 60 Hz	ASTM D 150		5
Insulation Resistance	ASTM D 257	Ω x 10 ¹²	100



	Test method	Unit	Guideline value
Electrical Strength - Axial in Oil		kV	80

All of the information, suggestions, and recommendations pertaining to the properties and uses of the Röchling Glastic Composites products described herein are based upon tests and data believed to be accurate; however, the final determination regarding the suitability of any material described herein for the use contemplated, the manner of such use, and whether the use infringes any patents is the sole responsibility of the user. THERE IS NO WARRANTY, EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Under no circumstances shall we be liable for incidental or consequential loss or damage. Glastic® is a registered trademark of Röchling Glastic Composites. UL® is a registered trademark of Underwriters Laboratories, Inc. See correlating profile page for sizing and related information.

