NorPLY™ 1002

Glass Epoxy Composite Laminate Sheet

Description and Overview

NorPLY™ 1002 is a cured glass epoxy composite material with a unique nonwoven parallel filament composition. Its parallel filaments minimize the stress placed on each filament, which increases the material's fatigue life. Made with continuous e-glass filaments, NorPLY™ may be manufactured in unidirectional, cross-ply, or isotropic fiber orientations that change the balance of its properties.

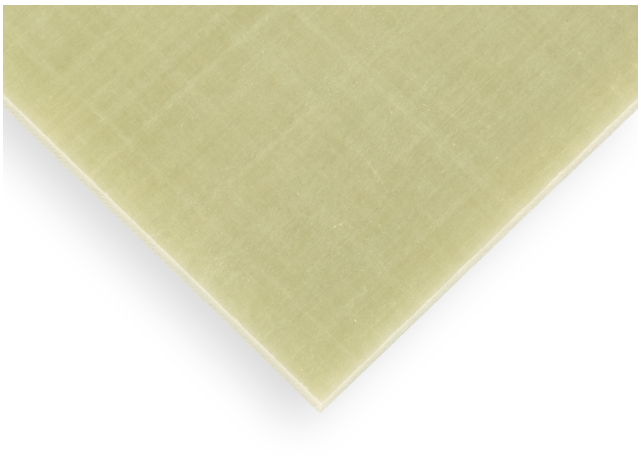
NorPLY™ has a high resistance to corrosion, chemicals, and impacts and has an energy storage capacity greater than 1060 steel.

NorPLY™ was previously known by the brand names ScotchPLY and CyPLY®.

Applications and Uses

NorPLY™ offers between 10% and 60% part weight reduction compared to steel components and is designed for higher performance and longer life in fatigue-intensive or high-strain applications. Applications include:

- Vibratory springs
- Insulated rail joints
- Dock shelter staves
- Flexible couplings
- Shocks and struts
- Furniture springs
- Insulation spacers



NorPLY™ 1002 is available in full sheets and cut-to-size options.
Orientation: Unidirectional
Full sheet: 48” x 72”
Thicknesses: .195” to .375”

Properties and Specifications

Property @ 70°F	Unidirectional NorPLY™ 1002
Impact Strength, Izod	2.7 ft.-lbs./in.
Tensile Modulus	39.3 GPa
Tensile Strength	965 MPa
Flexural Modulus	38.6 GPa
Flexural Strength	1150 MPa
Compressive Strength	880 MPa
Affixable Properties	Chem / Mech

Properties are typical.
Chem is an abbreviation for chemically affixed with glues, chemicals, or adhesive.
Mech is an abbreviation for mechanically affixed bonding.
Field testing is recommended for any application.

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