NEWPORT
ADHESIVES AND COMPOSITES, INC.
A subsidiary of MITSUBISHI RAYON CO., LTD.

WDE 3D-2
Product Information

WDE 3D-2

Description:

WDE 3D-2 is a 250°F (120°C) to 300°F (150°C) curing epoxy resin system, available as a continuous impregnated filament. WDE 3D-2 is designed for use in winding applications.

Application:

WDE 3D-2 is suited for structural applications in pressure vessel, marine, sporting goods, and wind energy manufacturing. Versatile processing, excellent mechanical properties, and long out-life make WDE 3D-2 suitable for a variety of applications.

Benefits/Features:

- Excellent mechanical properties
- 30 days out-life at 70°F (21°C)
- Excellent winding characteristics

Properties:

Typical room temperature properties of WDE 3D-2 laminates wound using Grafil 34-700 fiber and a cure of 275°F (135°C) for 60 minutes under 25 psi.

Property	Result
Tensile Strength, SACMA SRM 4R-94	306 ksi (2110 MPa)
Tensile Modulus, SACMA SRM 4R-94	20 Msi (137 GPa)
Compression Strength, SACMA SRM 1R-94	190 ksi (1310 MPa)
Compression Modulus, SACMA SRM 1R-94	19 Msi (131 GPa)
Short Beam Shear Strength, SACMA SRM 8R-94	14.5 ksi (100 MPa)
T_g by DMA E' onset, SACMA SRM 18R-94	230°F (110°C)

Recommended Processing Conditions:

WDE 3D-2 is a versatile epoxy resin system that can be cured between 250°F (120°C) to 300°F (150°C), depending on service temperature requirements. Low, medium, and high pressure molding techniques may be used to cure WDE 3D-2.

Recommended cure cycle is 25psi, 3°F/min ramp to 275°F, hold for 60 minutes, cool to 140°F.

Prepreg Storage:

Material can be stored at 40°F for 3 months, or 0°F for 6 months.

Availability:

WDE 3D-2 is available on most commercially available carbon fibers.

For orders, pricing, availability, technical assistance or other inquiries please contact:

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