

Bond Laminates TEPEX® dynalite 102-RGUD600(x)/47% Roving Glass – PA 6 Consolidated Composite Laminate

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 50% Glass Fiber Filled

Material Notes:

Within the TEPEX® composite laminate, Polyamide 6 is a resin known for its toughness, stiffness, abrasion resistance, heat and chemical resistances. Roving E-Glass fibers have an excellent impact performance. This makes the composite material tough and fatigue resistant while offering excellent mechanical properties. Typical application environments are within automotive applications, large structural parts, bumper systems, structural sporting goods applications, helmet shells. Information provided by Bond Laminates, GmbH.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Bond-Laminates-TEPEX-dynalite-102-RGUD600x47-Roving-Glass-PA-6-Consolidated-Composite-Laminate.php

Physical Properties	Metric	English	Comments
Density	1.80 g/cc	0.0650 lb/in ³	
Filler Content	47 %	47 %	by volume
Thickness	500 microns	19.7 mil	laminate layer thickness

Mechanical Properties	Metric	English	Comments
Tensile Strength	125 MPa	18100 psi	transverse; ISO 527-4/5
	605 MPa	87700 psi	longitudinal; ISO 527-4/5
Elongation at Break	1.5 %	1.5 %	transverse; ISO 527-4/5
	2.1 %	2.1 %	longitudinal; ISO 527-4/5
Tensile Modulus	12.0 GPa	1740 ksi	transverse; ISO 527-4/5
	30.1 GPa	4370 ksi	longitudinal; ISO 527-4/5
Flexural Strength	175 MPa	25400 psi	transverse; ISO 178
	840 MPa	122000 psi	longitudinal; ISO 178
Flexural Modulus	11.0 GPa	1600 ksi	transverse; ISO 178
	26.5 GPa	3840 ksi	longitudinal; ISO 178

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	DSC 3146
Maximum Service Temperature, Air	120 °C	248 °F	Relative Temperature Index; IEC 216/1
	@Time 7.20e+7 sec	@Time 20000 hour	

Thermal Properties Tensile strength at 1.8 MPa (264 psi)	Metric 113 °C	English 222 °F	Comments ISO 18-1/2
Minimum Service Temperature, Air	-30.0 °C	-22.0 °F	
Glass Transition Temp, Tg	60.0 °C	140 °F	DSC 3146

Processing Properties	Metric	English	Comments
Processing Temperature	240 - 260 °C	464 - 500 °F	

Descriptive Properties	Value	Comments
Reinforcement	Area weight	600 g/m ²
	Fabric	twill
	Fibers	roving glass
	Weight Rate	50% longitudinal, 20% transverse
	Yarn	1200 tex longitudinal and transverse

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