

## Bond Laminates TEPEX® dynalite 104-RG600(x)/47% Roving Glass – PP Consolidated Composite Laminate

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with 50% Glass Fiber Filler

### Material Notes:

Within the TEPEX® composite laminate, PP is a resin known for its good hardness, stiffness, abrasion resistance and chemical resistance. Typical application environments are within automotive applications, large structural parts. Information provided by Bond Laminates, GmbH.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Bond-Laminates-TEPEX-dynalite-104-RG600x47-Roving-Glass-PP-Consolidated-Composite-Laminate.php](http://www.lookpolymers.com/polymer_Bond-Laminates-TEPEX-dynalite-104-RG600x47-Roving-Glass-PP-Consolidated-Composite-Laminate.php)

Physical Properties	Metric	English	Comments
Density	1.68 g/cc	0.0607 lb/in <sup>3</sup>	
Filler Content	47 %	47 %	by volume
Thickness	500 microns	19.7 mil	laminate layer thickness

Mechanical Properties	Metric	English	Comments
Tensile Strength	390 MPa	56600 psi	transverse; ISO 527-4/5
	400 MPa	58000 psi	longitudinal; ISO 527-4/5
Tensile Modulus	20.1 GPa	2920 ksi	transverse; ISO 527-4/5
	20.5 GPa	2970 ksi	longitudinal; ISO 527-4/5
Flexural Strength	365 MPa	52900 psi	transverse; ISO 178
	370 MPa	53700 psi	longitudinal; ISO 178
Flexural Modulus	17.0 GPa	2470 ksi	transverse; ISO 178
	17.5 GPa	2540 ksi	longitudinal; ISO 178

Thermal Properties	Metric	English	Comments
Melting Point	163 °C	325 °F	DSC 3146
Maximum Service Temperature, Air	90.0 °C @Time 7.20e+7 sec	194 °F @Time 20000 hour	Relative Temperature Index; IEC 216/1
Deflection Temperature at 1.8 MPa (264 psi)	158 °C	316 °F	ISO 75-1/2
Minimum Service Temperature, Air	-10.0 °C	14.0 °F	

Processing Properties	Metric	English	Comments
Processing Temperature	190 - 210 °C	374 - 410 °F	

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

## Contact Songhan Plastic Technology Co.,Ltd.

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