

Bond Laminates TEPEX® dynalite 208-C200(x)/45% Carbon - TPU Consolidated Composite Laminate

Category : Polymer , Thermoplastic , Polyurethane, TP , Thermoplastic Polyurethane (TPUR), Carbon Fiber Reinforced

Material Notes:

Within the TEPEX® composite laminate, TPU distinguishes itself from alternative resin systems by its specific physical properties. The TPU resin is tough which results in an excellent impact and easy to mold, obtaining an excellent surface quality. The TPU-glass laminates can easily be bonded with common adhesive systems. An excellent adhesion is achieved when over molding with injection molding TPU grades. Typical application environments are sporting goods applications, helmet shells, cosmetic applications, footwear. Information provided by Bond Laminates, GmbH.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Bond-Laminates-TEPEX-dynalite-208-C200x45-Carbon-TPU-Consolidated-Composite-Laminate.php

Physical Properties	Metric	English	Comments
Density	1.47 g/cc	0.0531 lb/in ³	
Filler Content	45 %	45 %	by volume
Thickness	250 microns	9.84 mil	laminate layer thickness

Mechanical Properties	Metric	English	Comments
Tensile Strength	705 MPa	102000 psi	transverse; ISO 527-4/5
	710 MPa	103000 psi	longitudinal; ISO 527-4/5
Elongation at Break	1.5 %	1.5 %	longitudinal; ISO 527-4/5
	1.5 %	1.5 %	transverse; ISO 527-4/5
Tensile Modulus	48.0 GPa	6960 ksi	transverse; ISO 527-4/5
	48.5 GPa	7030 ksi	longitudinal; ISO 527-4/5
Flexural Strength	735 MPa	107000 psi	transverse; ISO 178
	745 MPa	108000 psi	longitudinal; ISO 178
Flexural Modulus	41.5 GPa	6020 ksi	transverse; ISO 178
	42.5 GPa	6160 ksi	longitudinal; ISO 178

Thermal Properties	Metric	English	Comments
Melting Point	190 °C	374 °F	DSC 3146
	90.0 °C	194 °F	Relative Temperature Index; IEC

Maximum Service Temperature, Air Thermal Properties	Metric @ Time 7.20e+7 sec	English @ Time 20000 hour	216/1 Comments
Deflection Temperature at 1.8 MPa (264 psi)	185 °C	365 °F	ISO 75-1/2
Minimum Service Temperature, Air	-30.0 °C	-22.0 °F	

Processing Properties	Metric	English	Comments
Processing Temperature	210 - 230 °C	410 - 446 °F	

Descriptive Properties	Value	Comments
Reinforcement	Area weight	200 g/m ²
	Fabric	twill 2/2
	Fibers	carbon
	Weight Rate	50% longitudinal and transverse
	Yarn	3000 tex longitudinal and transverse

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China