



**Barrday is a leading advanced material provider for the composite and protective markets.** For over 60 years, we have developed technologically advanced fiber reinforcements and prepregs for customers in the aerospace, defense, energy, industrial and protective markets. Barrday has a manufacturing and sales presence in North America and Europe.



At Barrday, we are committed to applying our array of advanced composite materials, process technologies and creative energy to provide our customers with products and services of consistently high quality and value. We have developed expertise and performance differentiation in the following areas:

- Woven reinforcements
- Thermoplastic tapes and semi-preg
- Thermoset prepreg systems

Barrday's objective is to provide high quality, high performance products that satisfy all customers' expectations through continuous improvement for delivery, form, function and reliability. These products are produced in a safe and environmentally friendly facilities that has concern for our customers, employees and the community. All facilities are ISO9001:2015 certified and AS9100D where required.

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	END-MARKET APPLICATIONS	AVAILABLE FORMATS		REINFORCEMENT	PROCESSING TEMP °F (°C)	BENEFITS
		FABRIC	UD			
<b>ENGINEERED THERMOPLASTICS</b>						
TU/TF100 (PPS)	Structures Aircraft Interiors Industrial	✓	✓	E-Glass Fabric Carbon Fabric  UD: HS/SM Carbon Fiber [145 - 300gsm] IM Carbon Fiber [145 - 300gsm] S2 Glass Fiber [145 - 300gsm]	575 – 625 (300 – 325)	High temperature semi-crystalline polymer with low moisture absorption and excellent chemical/solvent resistance. Very good FST properties. Tg of 200° F (95° C)
TU/TF200 (PEEK) (LM PEEK)	Structures Oil & Gas Industrial	✓	✓		675 – 725 (360 – 385)	Very high temperature semi-crystalline polymer with good combination of toughness, chemical solvent resistance, low moisture absorption, and FST properties. Tg of 289° F (143° C)
TU/TF300 (PEKK)		✓	✓		650 – 700 (340 – 370)	Very high temperature semi-crystalline polymer with good combination of toughness, chemical solvent resistance, low moisture absorption, and FST properties. Tg of 319° F (159° C)
TU/TF400 (PEI)	Aircraft Interiors Structures	✓	✓		625 – 675 (330 – 360)	High temperature tough amorphous polymer with excellent FST properties.
TU700/800 (PA11/12)	Oil & Gas Industrial	✓	✓		375 – 425 (190 – 220)	Low temperature tough polymers with excellent chemical and solvent resistance.
TU1100 (PVDF)		✓	✓		350 – 400 (175 – 200)	Semi-crystalline polymer with good combination of strength, toughness, chemical and solvent resistance.

<b>EPOXY SYSTEMS</b>						
EPM502	Aircraft Interiors Industrial	✓	✓	E Glass Fabric S2 Glass Fabric Carbon Fabric  UD: HS/SM Carbon S2 Glass	235 – 275 (115 – 135)	Toughened epoxy prepreg system suitable for autoclave, press or bag molding operations. Fire retardant per FAR 25.833 Tg of X
EPM503-1		✓	✓		260 – 280 (125 – 140)	Toughened, low heat release epoxy prepreg system (Sub 35/35 OSU). Self-adhesive to honeycomb. Excellent surface finish. EPM503-1 is offered as a press grade system. REACH compliant.
EPM505		✓	✓		260 – 280 (125 – 140)	Toughened, low heat release epoxy prepreg system (Sub 35/35 OSU). Self-adhesive to honeycomb. Excellent surface finish. EPM505 is designed for bag molding. REACH compliant.
EPH350	Structures	✓		Aramid Fabric E-Glass Fabric	275 – 355 (135 – 180)	High temperature curing, fire retardant epoxy per FAR 25.833. Excellent combination of toughness and high Tg of 300°F (150° C)

<b>PHENOLIC SYSTEMS</b>						
LC194	Aircraft Interiors	✓	✓	E-Glass Fabric S2 Glass Fabric Carbon Fabric Aramid Fabric  UD: HS/SM Carbon S2 Glass	235 – 250 (115 – 120)	Highly self-adhesive to aramid honeycomb. Meets flammability requirements for use in aircraft interiors.
LC196		✓			265 (130)	Snap cure prepreg. Self-adhesive to honeycomb. Meets flammability requirements for use in aircraft interiors. Excellent surface finish.
LC294		✓	✓		250 – 275 (120 – 135)	Suitable for press and bag molding. Self-adhesive to aramid honeycomb with extremely low heat release rates. (Sub 30/30 OSU)
LC296		✓			265 – 275 (130 – 135)	Snap cure prepreg. Very good adhesion and extremely low heat release rates. (Sub 30/30 OSU)
PH4101	Structures	✓	✓	350 (175)	Designed for use in high temperature aerospace applications including ducting, engine components and heat shields. Tg of 310° F (155° C)	
PSR133	Carbon/Carbon Armor	✓	✓	300 – 325 (150 – 160)	Exceptional char yield for carbon carbon applications and does not exhibit macro cracking in high modulus composite structures. Conforms to MIL-R-9299C, Grade B.	

\*Contact us for information regarding our ablative prepreg materials