



**Barrday is a leading advanced material solutions provider. We develop products for the composite and protective markets.**

Our growth strategies are based on developing technologically advanced fiber reinforcement, prepreg and other material solutions for our customers in the aerospace, military/defense, transportation, energy 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-prep
- 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 ISO 9001 certified and AS 9100 where required.

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END-MARKET APPLICATIONS	AVAILABLE FORMATS & REINFORCEMENT	PROCESSING TEMP °F (°C)	BENEFITS
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### ENGINEERED THERMOPLASTICS

TU/TF100 (PPS)	Structures Aircraft Interiors Industrial	Semi-Preg UD Tape Laminates	Carbon Aramid Ceramic S-Glass	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)	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			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.

### EPOXY SYSTEMS

EPM104	Industrial	Fabric UD Tape	Carbon	250 (120)	Highly toughened epoxy prepreg system suitable for autoclave, press or bag molding operations. Tg of 266°F (130°C)
EP2552	Aircraft Interiors		Carbon Glass	245 – 275 (120 – 135)	Toughened epoxy prepreg system designed for sandwich panel applications. Self-adhesive to honeycomb. Fire retardant per FAR 25.853. EP2052 is a snap cure prepreg.
EPM502	Aircraft Interiors Industrial			235 – 275 (115 – 135)	Toughened epoxy prepreg system suitable for autoclave, press or bag molding operations. Fire retardant per FAR 25.833
EPM503-1/ EPM505	Aircraft Interiors Industrial			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. EPM505 is designed for bag molding.
EP350	Structures		Carbon Aramid Glass	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)
EPH301H	Automotive Industrial		Carbon	250 – 310 (120 – 155)	Toughened, high clarity, controlled flow system that cure as low as 5 minutes in press. Tg of 350° F (175° C)
EPH302				250 – 300 (120 – 150)	Toughened, high clarity, controlled flow system that cure as low as 3 minutes in press. Tg of 310° F (155° C)

### PHENOLIC SYSTEMS

LC194	Aircraft Interiors	Fabric	Carbon 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)
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.
LR1406H/ X085	Ablatives	Fabric Bias Tapes	Carbon	325 (160)	Low fired stretch broken and spun carbon. Improved erosion resistance for solid rocket motors. Rayon replacement.