



## PRODUCT SELECTOR GUIDE

Prepreg	Description	Form	Flame Ret.	Cure Temp	Tough- ened	Tg DMA (E')	Service Temp	Applications	Comments
117-1	Flame retardant, Self-adhesive	F, T		250- 300°F		125°C	200°F	Aerospace, industrial	Sandwich panel construction. Meets: NASA out-gassing, BMS 8 79, BMS 8-168 and FAR 25.853
301	General purpose, Toughened	F, T		250- 300°F		120°C	200°F	Aerospace, industrial, marine, medical	Industry standard for over 25 years. High performance at low cost. FR and tack variations avail.
301T	General purpose, Aesthetic	F, T		250- 300°F		120°C	200°F	Aerospace, industrial, marine, medical	For demanding aesthetics applications, long out-life
304-1	High toughness	F, T		250- 300°F		120° C	200°F	Sporting goods, medical, industrial, marine	Excellent impact properties, long out-life
307	High toughness	F, T		250- 300°F		115°C	200°F	Aerospace, industrial, marine	Suitable for thick structures, low exotherm
308T	General purpose, Clear aesthetic	F, T		250- 300°F		120°C	200°F	Industrial, medical, automotive	Clear transparent aesthetics, long out-life
316	Flame retardant, Toughened	F, T		250- 300°F		115°C	180°F	Industrial, electrical & electronics	Meets UL-94V V-0 Class
321	High temperature resistance	F, T		250- 300°F		150°C	250°F	Aerospace, industrial	AGATE design allowable database
1100	General purpose epoxy	F		250- 300°F		120°C	200°F	Industrial, sporting goods	Excellent for laminating
1101	General purpose, Self-adhesive	F		250- 300°F		110°C	200°F	Industrial	Sandwich & laminating
1102	General purpose, Self-adhesive	F		250- 300°F		105°C	180°F	Industrial	Long out-life, sandwich & laminating
1106	Flame retardant, Self adhesive	F		250- 300°F		105°C	180°F	Aerospace, industrial	Sandwich & laminating, meets: FAR 25.853
4030	Flame retardant, Toughened	F, T		250- 300°F		130°C	200°F	Aerospace (aircraft interior)	Flame retardant, meets FAR25.853, Appendix F Part I, IV, V - Smoke density & heat release
4080	General purpose epoxy, High Tg	F, T		250- 300°F		155°C	250°F	Aerospace, industrial, commercial, sporting goods	Moderate Tack, high Tg, 30 days out-life at 70°F (21°C)
4300	Low temperature cure	F, T		160- 200°F		90°C	140°F	Industrial, marine	Long out-life, suitable for very thick structures, low exotherm
5300	Variable cure temperature range, Toughened	F, T		160- 275°F		130°C	200°F	Industrial, sporting goods, marine, tooling	Long out-life, Low temperature cure or 10min cure at 275°F. Fully toughened properties
4400	General purpose, Toughened, Moderate tack	F, T		250- 300°F		120°C	200°F	Sporting goods, marine and industrial	High torsional performance
4708	General purpose epoxy High toughness, High wet Tg	F, T		250- 300°F		145°C dry 120°C wet	250°F	Aerospace (UAV, rockets), general aviation, industrial	Controlled flow, excellent mechanical properties, long out-life, NCAMP & FAA B-basis design allowable database
6100	General purpose epoxy, High temperature	F, T		350°F		210°C	350°F	Aerospace, industrial, tooling	Med-high flow, excellent mechanical properties
6600	High performance epoxy, High toughness, High Tg	F, T		350°F		210°C dry 165°C wet	350°F	Aerospace, general aviation	High dry and wet Tg, excellent mechanical properties Meets DMS 2224 specification (non-QPL)

Rev 8/28/13

\* F . Fabric, T . Uni-directional Tape

www.mrcfac.com





## PRODUCT SELECTOR GUIDE

Adhesives	Description	Forms	Flame Ret.	Cure Temp	Tough- ened	Substrates				Service Temp	Applications	Comments	
						Metals	Carbon	Balsa	Foams	H-comb			
NB101	General purpose	U, R		235- 300°F							200°F	Aerospace, military	Co-curing/bonding sandwich structure. Meets: MMM-A-132 & MIL-A-25463
NB102	General purpose with extended outlife	U, R		250- 300°F							180°F	Sports, industrial, medical	Co-curing/bonding sandwich structure. Long out-life, meets: MMM-A-132 & MIL-A-25463
NB106	Flame retardant	U, R		235- 300°F							180°F	Aerospace interiors	Co-curing/bonding sandwich structure. Meets: MMM-A-132, MIL-A-25463 & FAR 25.853
NB141U	Reticulating adhesive	U		275- 300°F							180°F	Perforated panel assembly	Perforated aluminum skin bonding to honeycomb core
NB321 LS	Lightning strike adhesive Aluminum or copper mesh reinforced	М		275- 300°F							250°F	Aerospace outer skins	Lightning strike protection Shielding, high dry and wet Tg, 20 days out-life at 70°F (21°C)
LTC3310	Low temperature adhesive film	U, R		180- 250 F							140°F	Marine, tooling	Low temperature adhesive for open and closed cell core
TB3500	High peel strength	U, R		250- 300°F							200°F	Aerospace, military	High bond, shear properties, meets: MMM-A-132 & MIL-A-25463
Surfacing	Surfacing Film												
3100	Surfacing film, porosity free.	R		250-								General use	Co-curable with 250°F & 300°F cure systems Compatible with various paints
3800	Excellent cured surface cosmetics.	R		300°F								Aerospace	Sands easily and compatible with industrial coatings
Core Spl	Core Splice – Foaming Adhesive												
NB51/301	Long out-life syntactic	U		250- 300°F							180°F	Core splice, edge inserts	Expandable low density adhesive

<sup>\*</sup> U= Unsupported, R= Reinforced, M= Metal mesh Reinforced

Towpreg	Description	Flame Ret.	Cure Temp	Tough- ened	Tg DMA (E')	Service Temp	Comments
HMT301	General purpose, toughened		250-300°F		120°C	200°F	Based on NB301 toughened system, wide range of applications. Low cost, high performance.
HMT316	Flame retardant, toughened		250-300°F		140°C	200°F	Meets UL-94V V-0 Class
HMT317	General purpose		250-300°F		125°C	200°F	General epoxy resin
HMT321	High temperature resistance, toughened		250-300°F		150°C	250°F	High service temperature. Great mechanical properties.
HMT321FR	High temperature resistance, flame retardant		250-300°F		150°C	250°F	High service temperature and flame resistance properties.
HMT4030	Flame retardant meets FAR25.853		250-300°F		135°C	200°F	Meets FAR25.853, Appendix F Part I, IV, V. Designed for aircraft interiors.
HMT502	High elongation  Designed for pressure vessel applications		250-300°F		115°C	200°F	Very good tank burst and cycle durability.
HMT5300	Variable cure system		160-275°F		130°C	200°F	Ideal for Type 4 cylinders (plastic liners). 10 min cure at high temperature.
HMT701	Low surface tack		250-300°F		120°C	200°F	Low viscosity, low surface tack, processing similar to wet winding resin.
HMT6600	350°F cure, high temperature resistance		350°F		200°C	350°F	High performance aerospace system.

Rev 8/28/13

www.mrcfac.com