

SHD COMPOSITES PRODUCT SELECTOR GUIDE



Resin System	Description	Cure Temp (°C)	Cure Time (Hours)	Outlife at 20°C (Days)	Tg Onset * (°C - DMA)	Tg Peak * (°C - DMA)	Service Temp * (°C)	Toughened	Cure	Application
TOOLING PREPREG - Low Temperature Cure										
LTC102	Carbon / Glass Tooling	30 - 65	45 - 5	3	214	232	210	No	Autoclave	Low Temperature Cure, Motorsport
LTC150	Carbon / Glass Tooling	30 - 70	40 - 3	2	186	210	180	No	Autoclave	Low Temperature Cure, Motorsport
LTC210	Carbon / Glass Tooling	45 - 70	40 - 4	4	202	221	200	No	Autoclave	General Purpose
LTC216	Carbon / Glass Tooling	45 - 70	50 - 5	7	218	242	210	No	Autoclave	General Purpose
LTC400	Long Outlife Tooling	60 - 70	72 - 12	21	207	228	200	No	Autoclave	General Purpose, Long Outlife
LTC410	Long Outlife Tooling	65 - 80	16 - 4	21	192	218	180	Yes	Autoclave / Oven / Press	Tooling
OTS65	Oven Cure Tooling	65 - 90	Consult Data Sheet	Up to 21	129	143	125	No	Oven	Out of Autoclave Structures
ADHESIVE FILM										
MTFA500	Adhesive Film	80 - 120	16 - 1	30	141	150	135	Yes	Autoclave	General Purpose
VTFA400	Adhesive Film	65 - 120	16 - 1	21	135	147	125	Yes	Autoclave	General Purpose
COMPONENT PREPREG - Low to Medium Temperature Cure										
LTC250-2XL	Low Temp Cure	50 - 75	40 - 4	5	130	144	125	Yes	Autoclave / Oven	General Purpose (Visual)
MTC275	Med Temp Cure, Out of Autoclave	85 - 120	16 - 1	30	121	135	115	Yes	Autoclave / Oven	General Purpose (Visual)
MTC400	Med Temp Cure	85 - 135	16 - 1	30	227	238	220	Yes	Autoclave	Motorsport / Aerospace
MTC400-1	Med Temp Cure	85 - 135	16 - 1	30	207	224	200	Yes	Autoclave	Motorsport / Aerospace
MTC475	Med Temp Cure	80 - 120	16 - 1	30	190	206	180	Yes	Autoclave	General Purpose, High Temperature (Visual)
MTC510	Med Temp Cure	80 - 120	16 - 1	30	140	148	135	Yes	Autoclave	General Purpose (Visual)
MTC811	Med Temp Cure, Core Bondable	90 - 120	14 - 1	60	121	128	115	Yes	Autoclave	General Purpose (Visual)
MTC9810	Graphene Enhanced	90 - 120	14 - 1	60	116	125	110	Yes	Autoclave	Increased Durability
COMPONENT PREPREG - High Service Temperature										
HTC400	High Temp Cure	180	2	30	263	272	255	Yes	Autoclave	Aerospace / Automotive
CEM100	Cyanate Ester, High Service Temp	120 - 135	3 - 2	21	345	400	340	No	Autoclave	Aerospace / Motorsport
CEM160	Cyanate Ester, High Service Temp, Available on UD reinforcements	120 - 135	3 - 2	Up to 21	275	300	270	No	Autoclave	Aerospace / Motorsport
CEL100-1	Cyanate Ester, High Service Temp	70 - 90	22 - 6	2	296	311	290	No	Autoclave	Aerospace / Motorsport
VERSATILE PREPREG										
VTC212	Oven Component System	65 - 120	16 - 1	21	135	140	130	Yes	Oven	Cosmetic
VTC401	General Purpose, Core Bondable	65 - 120	16 - 45 mins	21	143	151	135	Yes	Autoclave / Oven / Press	General Purpose (Visual)
VTC410	Fast Cure Component	65 - 140	16 - 15 mins	21	190	206	180	Yes	Autoclave / Oven / Press	General Purpose Component
OPS75	Oven Panel System	65 - 130	Consult Data Sheet	Up to 21	140	160	130	Yes	Autoclave / Oven	Body Panel / Prototype Tooling
APS75	Autoclave Panel System	65 - 130	Consult Data Sheet	21	170	191	160	Yes	Autoclave	Body Panel / Prototype Tooling
FLAME RETARDANT										
FRVC411	Flame Retardant, Core Bondable	65 - 120	16 - 1	21	155	176	150	Yes	Autoclave / Oven / Press	Flame Retardant, Aerospace / Rail
MTC510FRB	Flame Retardant, Med Temp Cure	80 - 120	16 - 1	30	130	148	125	Yes	Autoclave	Flame Retardant, General Purpose
PS200	Flame Retardant, Bio-based	120 - 130	1.5 - 1	21	350	390	330	No	Autoclave / Oven / Press	Flame Retardant, Automotive / Electric Vehicles

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*: Tg and service temperatures quoted in this Product Selector Guide are maximum values, possibly achieved after a post cure cycle depending on the product. Please consult Technical Data Sheets for details.

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