

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 / General Purpose Component
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 hrs - 45 mins	21	143	151	135	Yes	Autoclave / Oven / Press	General Purpose (Visual)
VTC410	Fast Cure Component	65 - 140	16 hrs - 15 mins	21	190	206	180	Yes	Autoclave / Oven / Press	Tooling / 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.

SHD Composites continuously reviews and updates its Product Selector Guide and Technical Data Sheets. Please ensure that you have the current version, by contacting your SHD Composites sales contact and quoting the issue date.

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