

SHD COMPOSITES PRODUCT SELECTOR GUIDE



Material	Description	Cure Temp (°C)	Cure Time (Hours)	Outlife at 20°C (Days)	Tg Onset (°C)	Tg Peak (°C)	Service Temp (°C)	Toughened	Cure	Application	Flame Retarded
Tooling Prepreg Low Temp Cure											
LTC102	Carbon / Glass Tooling	30 - 65	45 - 5	3	214	231	210	No	Autoclave	Low CTE Tooling	N/A
LTC210	Carbon / Glass Tooling	45 - 70	40 - 4	4	202	221	200	No	Autoclave	Low CTE Tooling	N/A
LTC216	Carbon / Glass Tooling	45 - 70	50 - 5	7	220	235	210	No	Autoclave	Low CTE Tooling	N/A
LTC400 (DF314)	Long Outlife, High Tg Tooling	55 - 70	72 - 12	21	230	245	220	No	Autoclave	Low CTE Tooling	N/A
OTS65	Oven Cure Tooling	65 - 130	Consult Data Sheet	Up to 21	142	150	130	No	Oven	OOA Structures	N/A
Adhesive Film											
MTFA500	Adhesive Film	80 - 120	16 - 1	30	141	149	135	Yes	Autoclave	General	No
VTFA400	Adhesive Film	65 - 120	16 - 1	21	135	147	130	Yes	Autoclave	General	No
Component Prepreg Low to Med Temp Cure											
LTC250-2XL	Low Temp Cure	50 - 75	40 - 4	5	136	149	130	Yes	Autoclave / Oven	General Purpose (Visual)	No
MTC275	Med Temp Cure, Out of Autoclave	85 - 120	Consult Data Sheet	30	121	135	110	Yes	Oven / Autoclave	General Purpose (Visual)	No
MTC400	Med Temp Cure	85 - 135	16 - 1	30	227	238	220	Yes	Autoclave	Motorsport / Aerospace	No
MTC400-1	Med Temp Cure	85 - 135	16 - 1	30	207	223	200	Yes	Autoclave	Motorsport / Aerospace	No
MTC510	Med Temp Cure	80 - 120	16 - 1	30	140	148	135	Yes	Autoclave	General Purpose (Visual)	No
MTC801	Med Temp Cure, Honeycomb Bondable	90 - 120	14 - 1	60	122	132	115	Yes	Autoclave	General Purpose (Visual)	No
Component Prepreg High Temp											
HTC400	High Temp Cure	170 - 190	4 - 3	30	263	272	255	Yes	Autoclave	Aerospace / Automotive	No
PS100 Ceramic	Ceramic High Service Temp	70 - 90	12 - 8	Consult Data Sheet	N/A	N/A	1000 Spike Temp	No	Autoclave / Oven	Aerospace / Automotive	Inherent
CEM100	Cyanate Ester	120 - 135	3 - 2	21	345	400	340	No	Autoclave	Aerospace / Motorsport	Inherent
CEL100-1	Cyanate Ester	70 - 90	22 - 6	2	310	323	305	No	Autoclave	Aerospace / Motorsport	Inherent
Component Prepreg Versatile Temp Cure											
VTC212 (DF212)	Oven Component System	65 - 120	16 - 1	21	135	140	130	Yes	Oven	Cosmetic	No
VTC401	Versatile Temp Cure, Honeycomb Bondable	65 - 120	16 hrs / 45 mins	21	142	150	135	Yes	Autoclave / Oven / Press	General Purpose (Visual)	No
OPS75	Oven Panel System	65 - 120	Consult Data Sheet	Up to 21	140	160	135	Yes	Autoclave / Oven	Body Panel / Prototype Tooling	Yes
APS75	Autoclave Panel System	65 - 120	Consult Data Sheet	21	165	191	160	Yes	Autoclave	Body Panel / Prototype Tooling	Yes
Flame Retardant											
FRVC410	Flame Retarded, Core Bondable	65 - 120	16 - 2	21	165	176	160	Yes	Autoclave / Oven	Flame Retardant, Aerospace / Rail	Yes
MTC510FRB	Flame Retarded, Med Temp Cure	80 - 120	16 - 1	30	130	148	125	Yes	Autoclave	Flame Retardant, General Purpose	Yes
SHD MTI Products											
PFA308	Flame Retardant, Low Heat Release	130 - 160	Consult Data Sheet	Up to 21	225	280	250	No	Autoclave / Oven / Press	Flame Retardant, Aerospace / Rail	Inherent

The information and assistance provided herein is for your consideration without legal responsibility. Users are required to perform verification and testing to confirm that the product meets with their specific requirements. Data is given as a guide only - refer to Data Sheets, available on www.shdcomposites.com or contact SHD Composite Materials Ltd Technical department on +44 1529 307629 for advice. Care must be taken with thick laminates to avoid uncontrolled exothermic reaction. SHD Composite Materials Ltd reserves the right to change this information. Current data is available on www.shdcomposites.com