

TECHNICAL DATA SHEET

Resin System	CM14	
Applications	Visual composites, Automotive	
Key Features	Suitable for fast press molding Class A Surface quality Suitable for semi structural applications Good chemical resistance Silica free formulation for improved visual performance (passes) Waterspot/whitespot resistant DICY free formulation	
Visual examination with 3M™ SUN GUN™ II Light Kit	Visually perfect with neither milky appearance nor any haze by light diffraction due to silica	
80 °C hot distilled water immersion test	No whitespot/waterspots after 80hrs of hot immersion.	
Cure Temperature	150°C - 180°C < 5 minutes	
Transport	Frigo/cold transport is required	
Work Life	5 days (Maximum of 10 days) @ RT (should be handled/transported carefully and be refrigerated whenever not in use)	
Storage Life	6 months @ -18°C	
Fiber	Carbon	
Weaving Style	Plain, twill, UD	
Dry Fabric Areal Weight (gsm)	200 - 600	
%Resin Content (by weight)	35 - 48 ± 2	
Tackiness Level	Low Tack	
Tack Life	5 Days @ RT	

Initial Mix Viscosity Gel Time (Rheometer)	at 25°C [Pas]	26400
	at 50°C [Pas]	56
	at 65°C [Pas]	15
	at 75°C [Pas]	5,5
	at 120°C [sec]	444
	at 130°C [sec]	252
	at 150°C [sec]	108
Cure Time with HPDSC	at 150°C and 7 Bar [sec]	510
Prepreg Shelf Life	at 23 °C	2 weeks





Cured Matrix Properties

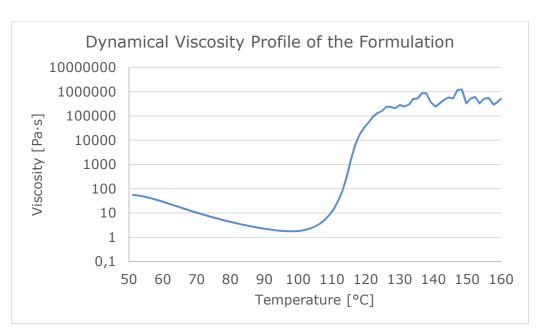
Cured Matrix Properties (cured at 80 $^{\circ}\text{C}$ 30 minutes \rightarrow 100 $^{\circ}\text{C}$ 30			
minutes \rightarrow 140 $^{\rm o}$ C 60 minutes)			
Glass Transition Temp (Tg by DSC) [°C]	DSC Cure= Ramped from RT to 150°C (10C/min) @150 °C 5 min, Ramped 150 to 210°C (10C/min) DSC Tg measurement=Cool from 210°C to room temp	140	
	Press Cure = Isothermal press @160	145	
Tg DMA 1Hz, 3°C/min	Onset of E'	112,7	
	Maximum of Tanδ	159	
	Maximum of E"	136,60	
Tensile Test (ASTM D3039)	Tensile Strength (MPa)	23	
	Tensile Modulus (MPa)	3310	
	Elongation at maximum (%)	0,70	
Flexural Test (ASTM D790)	Flexural Strength (MPa)	68,3	
	Flexural Modulus (MPa)	3630	
	Elongation at maximum (%)	1,9	

Resin Matrix Properties

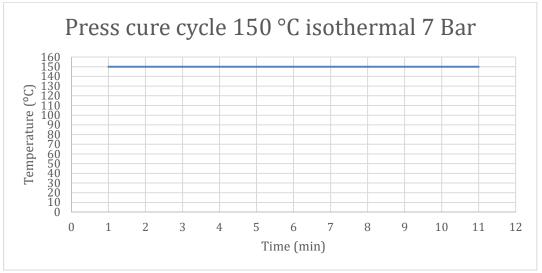


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Cure Profile Compression Molding (Recommended) Compression Molding (Recommended)



Pressure: Minimum of 7 bar (7.2 kg/cm2) (*), **30 bar is recommended. Ramp Rate:** Consolidated prepregs (preforms) can be loaded into a preheated tool (compression molding).

Recommended Cure Cycle: 10 minutes at 150 C +/-5C, 30 bar @ Press **Recommended Post-Cure Cycle:** 6 hours at 150 C +/-5C @ Oven **Cool Down:** Cured parts can be removed from tool without cooling (hot demolding).



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(*) It may be necessary to adjust and optimize the pressure applied and the time when the pressure it is applied in order to achieve the best quality on the part

COMPRESSION MOULDING is the recommended process for the CM14 resin system

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