

Innovium FLY : Aerospace applications

<i>Semi-solid epoxy resin films</i>									
Product	Process	Viscosity @ 60°C (mPa.s)	GC* (J/m²)	Recommended cure	T <sub>g</sub> °C (°F)	Storage modulus* GPa (kPSI)	Film density (g/sqm)	Film thickness (µm)	Comments
LED 2376	Preimpregnation, RFI	160 000	430	2h @ 130°C (266°F) + 2h @ 200°C (392°F)	160 (320)	50 (7250)	40 - 400	35 - 350	Semi solid resin films are designed for a simple implementation in common production lines to produce prepreg. On-the-shelf formulations are low tack versions. Tack may be adjusted on-demand.
LED 2377	Preimpregnation, RFI	260 000	630		160 (320)	47 (6800)	40 - 400	35 - 350	
LED 2378	Preimpregnation, RFI	350 000	880		160 (320)	44 (6400)	40 - 400	35 - 350	
<i>Hotmelt systems</i>									
Product	Process	Viscosity @ 60°C (mPa.s)	GC* (J/m²)	Recommended cure	T <sub>g</sub> °C (°F)	Storage modulus* GPa (kPSI)	Comments		
INK 2376	Preimpregnation	160 000	430	2h @ 130°C (266°F) + 2h @ 200°C (392°F)	160 (320)	50 (7250)	On-the-shelf formulations are low tack versions. Tack may be adjusted on-demand.		
INK 2377	Preimpregnation	260 000	630		160 (320)	47 (6800)			
INK 2378	Preimpregnation	350 000	880		160 (320)	44 (6400)			

\* Values determined on carbon based fibre composite (8 layers) cured in autoclave