

NEMpreg.light4010 - Snap cure epoxy resin prepreg

Description

NEMpreg.light4010 is an advanced pre-impregnated technical textile that features as a one component, snap cure epoxy resin. Suitable for the following applications: sports and hobby, industrial, automotive. Recommended for hot pressing and thermoforming.

Advantages

- ✓ snap cure epoxy resin
- ✓ simple, quick and energy-efficient forming process (115°C, 10min.)
- ✓ storage at 20°C up to 2 months
- ✓ functional integration possibility
- ✓ low tack
- ✓ tailored made prepreg
- ✓ high mechanical properties
- ✓ low viscosity
- ✓ good surface finishing

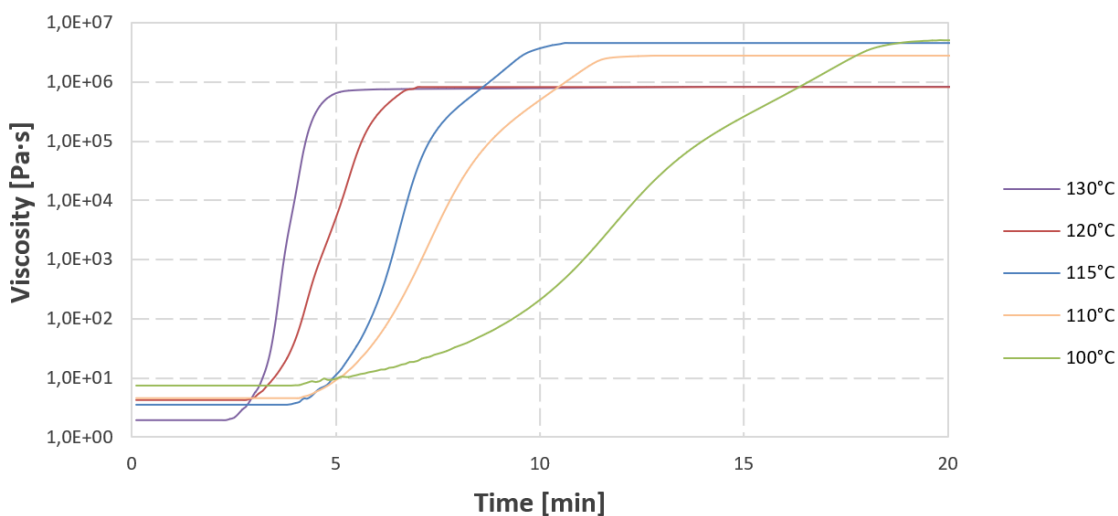
Properties

PRODUCT				NEMpreg.light4010 CF280
Property		Method	Unit	
Material	Resin type	-	-	Epoxy
	Reinforcement	-	-	Carbon fiber
		Weight (ISO 3374)	g/m ²	280±2%
		-	-	Twill 2/2
	Resin content	-	wt. %	40±2
Storage*	Storage time	-	months	2
	Storage temperature	-	°C	20
Processing**	Temperature	-	°C	115
	Time	-	min	10
	Pressure	-	bar	6
Mechanical	Tensile Strength °0	ISO 527-4:2012	MPa	≥ 610
	Strength Modulus °0		GPa	≥ 34
	Flexural Strength °0	ISO 14125:2001	MPa	≥ 680
	Strength Modulus °0		GPa	≥ 38
Thermal	Glass Transition Temp. (Peak of Tanδ)	ISO 6721-1:2011	°C	125±2°C
	Glass Transition Temp. (Resin system)	ISO 11357-5:2014	°C	120±2°C

* Before use, verify the packaging is not damaged and the material shows no visible traces of dirt. During processing, make sure that there are no contamination on the surface of the material (use rubber gloves). This could lead to insufficient bonding between the laminate layers.

** Initial plastification (if necessary) on the fabric in the mould: temperature from 60°C to 80°C; time 5 min.

Isothermal examination of curing process



Attention

The above information concerning our products is based on our present-day knowledge, research results and experiences and are presented in good faith in accordance with the company's practices. The proposed procedures are considered to be commonly applied. However, any user should verify, if the delivered material is suitable for the intended application. This should take place according to current industrial standards and norms, including examinations of the final product. Neither the company nor its representatives shall be liable for any direct, indirect, punitive, incidental, special consequential damages, to property or life, whatsoever arising out of or connected with the use or misuse of the company's products.