

NEMpreg.FR1011 - Snap cure epoxy resin prepreg

Description

NEMpreg.FR1011 is a flame retardant and advanced pre-impregnated technical textile based on snap cure epoxy resin system. This product is suitable for the following applications: public transport and construction. Recommended for hot press moulding.

Advantages

- ✓ snap cure epoxy resin
- ✓ halogen-free
- ✓ tackless
- ✓ good adhesion
- ✓ simple, quick and energy-efficient forming process

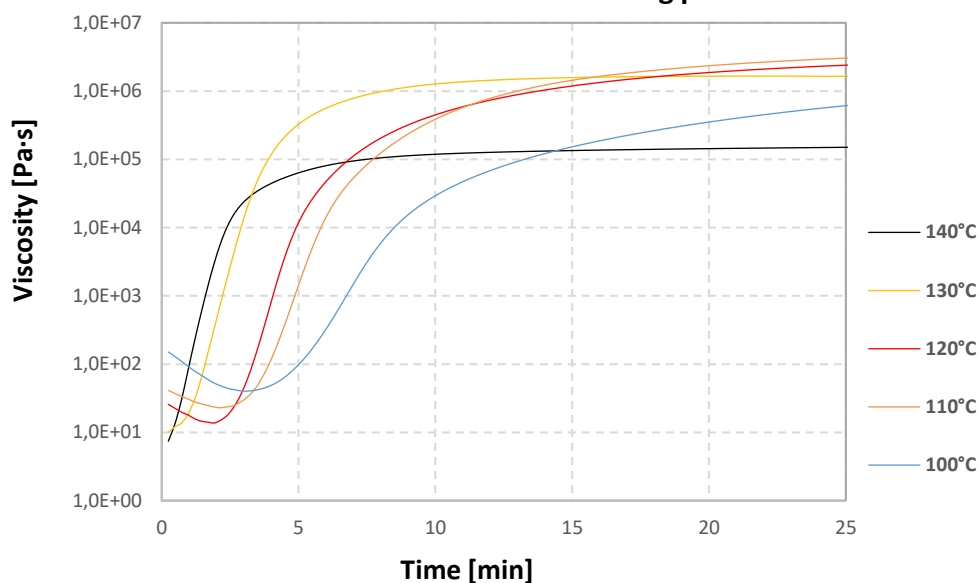
Properties

PRODUCT				NEMpreg.FR1011 GF350
Property		Method	Unit	
Material	Resin type	-	-	Epoxy
	Reinforcement	-	-	Glass fiber
		ISO 3374	g/m ²	350
		-	-	Twill 2/2
	Resin content	-	wt.%	48±2
Storage*	Outlife	-	°C/days	20/14
	Shelf life	-	°C/months	-18/6
Processing**	Temperature	-	°C	120
	Time	-	min	8
	Pressure	-	bar	6
Mechanical	Tensile Strength	ISO 527-4:2012	MPa	300
	Tensile Modulus		GPa	13.6
	Flexural Strength	ISO 14125:2001	MPa	350
	Flexural Modulus		GPa	16.7
Thermal	Glass Transition Temp. (DMA)	ISO 6721-1:2011	°C	122±2
Flame retardancy	-	EN 45545-2:2013	-	R1, R6, R7, R24/ HL1, HL2, HL3

* Before use, verify that the packaging is not damaged and the material shows no visible traces of dirt. During processing, make sure that there is 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) 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.