TDS

NOMA Comp Green

Resins ULV, LV, MV

Hardeners HR, MR, LR

NOMA Comp Green epoxy system is a high quality bio-product being a perfect solution for composite industry where high mechanical parameters, thermal and chemical resistance, as well as easy processing are crucial. One system allows you to produce composites by most available techniques, including infusion, RTM, hand lamination and more.

In response to environmental problems in composite industry, we have made a product based on bioglycerine to use plant wastes and lower the carbon foodprint.

Due to the excellent wetting properties of virtually any fillers and fibers available on the market, including glass, carbon, aramid and basalt fibers, **NOMA Comp Green** is widely used by manufacturers in transportation industry, marine, sport and even avionics and aerospace industry.

PROCESSING PARAMETERS

PARAMETER	UNIT	RESIN (A)			HARDENER (B)		
		ULV	LV	MV	HR	MR	LR
Viscosity (at 23°C)	mPas	300-350	500-600	1200-1600	< 20	< 20	< 20
Density (at 23°C)	g/ml	1,05	1,11	1,20	0,95	0,92	0,92
Mixing ratio	phr		100		30	28	31
						Mixture	
Pot-life (100 g / RT, at 23°C)	approx. in minutes				30	60	120

It is not common for the NOMA resins to crystalize. But it is highly recommended to keep all NOMA products in closed, humidity-free containers under temperatures between 15-30ºC. In case some clouding happens in the resin one can heat-up the resin to ca. 50ºC to remove any traces of crystallization. Do not heat the resin with the open fire! Always warm up opened containers to avoid pressure built-up**.**

Hardener CHT tend to crystallize. It should be stored free from moisture and carbon dioxide. As partial precipitation can cause a change in the isomer ratio of the before mentioned products in the liquid phase, it is necessary to completely liquify the entire contents by warming (max. 60ºC) and stirring.

For more information on this product, please do not hesitate to request our assistance through your Sales Agent.

MECHANICAL PARAMETERS*

PARAMETER	UNIT	SYSTEM ULV/HR LV/HR MV/HR	SYSTEM ULV/MR LV/MR MV/MR	SYSTEM ULV/LR LV/LR MV/LR	STD.
Density	g/cm^3	1,14 1,18 1,17	1,14 1,16 1,15	1,14 1,11 1,12	ISO 1183
Impact strenght	kJ/m^2	90 77 89	82 78 77	81 90 88	ISO 179
HDT	°C	81 77 78	82 80 80	82 77 78	ISO 75A
Tensile strenght	MPa	83 79 88	87 80 77	85 85 84	ISO 527-2
Young modulus	GPa	3,3 3,1 2,9	3,2 3,0 3,0	2,8 3,0 2,9	ISO 527-2
Flexural strenght	MPa	119 122 125	128 130 134	124 128 125	ISO 178
Flexural modulus	GPa	3,1 3,2 3,1	3,2 3,3 3,3	3,3 3,2 3,2	ISO 178
Elongation at break	%	7,0	8,0	6,8	ISO 527-2
Compressive strenght	N/mm^2	> 100	> 100	> 100	ISO 604
Absorption of water after 7 days	%	< 0,5	< 0,5	< 0,5	ISO 175

**Mechanical parameters of NOMA Comp Green after post-curing at 60°C, 4h*
Mechanical parameters strongly depend on processing parameters – especially temperature.