

# 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 footprint.

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
					<b>Mixture</b>		
Pot-life (100 g / RT, at 23°C)	approx. in minutes				30	60	120

It is not common for the NOMA resins to crystallize. But it is highly recommended to keep all NOMA products in closed, humidity-free containers under temperatures between 15-30°C. In case some clouding happens in the resin one can heat-up the resin to ca. 50°C 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. 60°C) 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			STD.
		ULV/HR LV/HR MV/HR	ULV/MR LV/MR MV/MR	ULV/LR LV/LR MV/LR	
Density	g/cm <sup>3</sup>	1,14	1,14	1,14	ISO 1183
		1,18	1,16	1,11	
		1,17	1,15	1,12	
Impact strenght	kJ/m <sup>2</sup>	90	82	81	ISO 179
		77	78	90	
		89	77	88	
HDT	°C	81	82	82	ISO 75A
		77	80	77	
		78	80	78	
Tensile strenght	MPa	83	87	85	ISO 527-2
		79	80	85	
		88	77	84	
Young modulus	GPa	3,3	3,2	2,8	ISO 527-2
		3,1	3,0	3,0	
		2,9	3,0	2,9	
Flexural strenght	MPa	119	128	124	ISO 178
		122	130	128	
		125	134	125	
Flexural modulus	GPa	3,1	3,2	3,3	ISO 178
		3,2	3,3	3,2	
		3,1	3,3	3,2	
Elongation at break	%	7,0	8,0	6,8	ISO 527-2
Compressive strenght	N/mm <sup>2</sup>	> 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.

The information herein is based on our present knowledge and experience. We believe this information to be reliable, however we cannot guarantee its applicability in your process. We decline all responsibility for events that may arise as a consequence of improper use of the product. By accepting the products described herein, the user accepts the responsibility to thoroughly test any application before commencing production. Our advice should not be taken as encouragement to breach any patent, law, safety code or insurance regulation.

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety related data.

