



## Technical Data Sheet

# Duresco NU 6210 V

Product Characteristics: Glass fibre reinforced epoxy moulding compound with very good mechanical properties and excellent thermal shock resistance

Applications: Encapsulation of electrical devices, e.g. Electronic, Sensors, Solenoids, Stators

Processing methods: Injection and transfer moulding

Shelf life: 12 months at temperatures  $\leq 8^{\circ}\text{C}$

The information given in this publication are typical values based on the present state of our knowledge but any conclusions and recommendations are made without liability on our part. Buyers and users should make their own assessment of our products under their own conditions and for their own requirements.

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### Mechanical Properties:

	Standard	Unit	Value
Tensile strength	ISO 527	MPa	100
Flexural strength	ISO 178	MPa	190
Surface strain	ISO 178	%	1.4
E-modulus (flexural test)	ISO 178	MPa	17'000
Impact strength	ISO 179-1	kJ/m <sup>2</sup>	22

### General and Thermal Properties:

	Standard	Unit	Value
Density	DIN 53479	g/cm <sup>3</sup>	1.95
Water absorption (100°C/30min)	ISO 62	%	0.06
Glass transition temperature	ISO 6721-7	°C	120
Thermal conductivity	ISO 22007-4	W/mK	0.75
Coefficient of thermal expansion	ISO 11359-2	ppm/K, (20–110°C)	20

### Electrical Properties:

	Standard	Unit	Value
Surface resistivity	IEC 60093	Ω, 25°C	10 <sup>16</sup>
Volume resistivity	IEC 60093	Ωcm, 25°C	10 <sup>15</sup>
Dielectric loss factor tan δ	IEC 60250	%, 50 Hz, 25°C	1.6
Dielectric constant ε <sub>r</sub>	IEC 60250	--, 50 Hz, 25°C	5.0
Comparative tracking index	IEC 60112	CTI	300