

## Provisional Technical Datasheet

# Duresco NU 505 L

Product Characteristics:	Mineral filled epoxy moulding compound with high temperature resistance and very good dimensional stability. Low and isotropic thermal expansion
Applications:	High precision parts for automotive-, electrical- and general engineering applications
Processing methods:	Compression, transfer and injection 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	45
Flexural strength	ISO 178	MPa	100
Surface strain	ISO 178	%	0.8
E-modulus (flexural test)	ISO 178	MPa	15'000
Impact strength	ISO 179-1	kJ/m <sup>2</sup>	6
Notched impact strength	ISO 179-1	kJ/m <sup>2</sup>	2.0

### General and Thermal Properties:

	Standard	Unit	Value
Density	DIN 53479	g/cm <sup>3</sup>	2.0
Water absorption (100°C/30min)	ISO 62	%	0.05
Glass transition temperature	ISO 6721-7	°C	200
Thermal conductivity	ISO 8894	W/mK	0.70
Coefficient of thermal expansion	ISO 11359-2	ppm/K, (20–105°C)	18

### 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	1.5
Dielectric constant ε <sub>r</sub>	IEC 60250	--, 50 Hz, 25°C	5.5
Comparative tracking index	IEC 60112	CTI	300