



## Provisional Technical Datasheet

# Duresco NU 6640 X

Product Characteristics:	Mineral filled epoxy moulding compound with high thermal conductivity and good mechanical properties
Applications:	Electro insulation material for the encapsulation of rotors and stators
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	90
Elongation at break (tensile test)	ISO 527	%	0.8
E-modulus (tensile test)	ISO 527	MPa	16000
Flexural strength	ISO 178	MPa	150
Surface strain (flexural test)	ISO 178	%	1.0
E-modulus (flexural test)	ISO 178	MPa	18000
Impact strength	ISO 179-1	kJ/m <sup>2</sup>	11

### General and thermal Properties:

	Standard	Unit	Value
Density	DIN 53479	g/cm <sup>3</sup>	2.3
Coefficient of thermal expansion	TMA	ppm/K, (30-105°C)	19
Glass transition temperature	ISO 6721-7/96	°C	150
Glass transition temperature	TMA	°C	110
Thermal conductivity	ISO 22007-4	W/mK	>1.1

### 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	0.7
Dielectric constant ε <sub>r</sub>	IEC 60250	--, 50 Hz, 25°C	6.0
Comparative tracking index	IEC 60112	CTI	275

Values in () are estimated