

## Technical Data Sheet

# Duresco NU 514 K / NU 514 L

Product Characteristics:	Flame retardant epoxy moulding compound with good mechanical properties, excellent chemical and high tracking resistance
Applications:	Electro insulation material for Bushings, Connectors, Ex-proof applications, Insulators, Switches Suitable also for applications with high radiation exposure
Processing methods:	Transfer and injection moulding
Shelf life:	12 months at temperatures below 8°C

The information given in this publication is 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	80
Flexural strength	ISO 178	MPa	150
Surface strain	ISO 178	%	1.2
E-modulus (flexural test)	ISO 178	MPa	14'000
Impact strength	ISO 179-1	kJ/m <sup>2</sup>	12
Notched impact strength	ISO 179-1	kJ/m <sup>2</sup>	4.0

### General and Thermal Properties:

	Standard	Unit	Value
Density	DIN 53479	g/cm <sup>3</sup>	1.9
Water absorption (100°C/30min)	ISO 62	%	0.06
Glass transition temperature	ISO 6721	°C	160
Temperature-time limit TI (flexural strength)	IEC 60216	°C, 20'000h	180
Thermal conductivity	ISO 8894	W/mK	0.70
Coefficient of thermal expansion	ISO 11359-2	ppm/K, (20-105°C)	25
Flame retardancy (d = 1.5mm)	UL 94	Class	V-0

### Electrical Properties:

	Standard	Unit	Value
Volume resistivity	IEC 60093	Ωcm	10 <sup>14</sup>
Dielectric loss factor tan δ	IEC 60250	%, 50 Hz, 25°C	2.0
Dielectric constant ε <sub>r</sub>	IEC 60250	--, 50 Hz, 25°C	5.6
Electric strength (3mm plate)	IEC 60243-1	kV/mm	22
Comparative tracking index	IEC 60112	CTI	600
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