

Technical Data Sheet

<u>Duresco NU 6110 V / NU 6110 X</u>

Product Characteristics: Glass fibre reinforced epoxy moulding compound

with very good mechanical properties for high

temperature applications

Applications: Encapsulation of electrical devices

e.g. Rotors, Sensors, Solenoids, Stators

Processing methods: Transfer and injection moulding

Shelf life: 18 months at temperatures ≤ 8°C

6 months at temperatures ≤18°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	80
Flexural strength	ISO 178	MPa	165
Surface strain	ISO 178	%	1.2
E-modulus (flexural test)	ISO 178	MPa	18'000
Impact strength	ISO 179-1	kJ/m²	16
Notched impact strength	ISO 179-1	kJ/m²	3.8

General and Thermal Properties:

	Standard	Unit	Value
Density	DIN 53479	g/cm ³	2.0
Water absorption (100°C/30min)	ISO 62	%	0.03
Glass transition temperature	ISO 6721-7	°C	160
RTI (flexural test)	UL 746 B	°C	150
Temperature Index TI (flexural test)	Based on IEC 60216	°C, 20'000h	180
Thermal conductivity	ISO 22007-4	W/mK	0.7
Coefficient of thermal expansion	ISO 11359-2	ppm/K, (30–105°C)	18

Electrical Properties:

	Standard	Unit	Value
Surface resistivity	IEC 60093	Ω, 25°C	10 ¹⁶
Volume resistivity	IEC 60093	Ωcm, 25°C	10 ¹⁵
Dielectric loss factor tan δ	IEC 60250	% , 50 Hz, 25°C	1.1
Dielectric constant ϵ_r	IEC 60250	, 50 Hz, 25°C	5.2
Electric strength (3mm plate)	IEC 60243-1	kV/mm	23
Comparative tracking index	IEC 60112	СТІ	275