Technical Datasheet

Duresco NU 6700 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
Processing methods:	Transfer and injection molding
Shelf life:	12 months at temperatures below 8°C

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Version 2, September 2026

Mechanical Properties:

	Standard	Unit	Value
Tensile strength	ISO 527	MPa	60
Flexural strength	ISO 178	MPa	140
Surface strain	ISO 178	%	0.9
E-modulus (flexural test)	ISO 178	MPa	17000

General and Thermal Properties:

	Standard	Unit	Value
Density	DIN 53479	g/cm^3	1.9
Glass transition temperature	ISO 6721	°C	160
Temperature-time limit TI (flexural strength)	IEC 60216	°C, 20'000h	195
Thermal conductivity	ISO 22007-4	W/mK	1.1
Coefficient of thermal expansion	ISO 11359-2	ppm/K, (20-105°C)	22
Flame retardancy (d = 3mm)	internal	Class	V-0

Electrical Properties:

	Standard	Unit	Value
Volume resistivity	IEC 60093	Ωcm	10^{14}
Dielectric loss factor tan δ	IEC 60250	% , 50 Hz, 25°C	2.1
Dielectric constant ε_r	IEC 60250	-- , 50 Hz, 25°C	5.6
Electric strength (3mm plate)	IEC 60243-1	kV/mm	13
Comparative tracking index	IEC 60112	CTI	600

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