

Technical Data Sheet

Duresco NU 5759 L

Product Characteristics:	Flame retardent moulding compound with good dielectric properties
Applications:	Ignition components for Automotive applications Insulation material for Electro applications
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	50
Flexural Strength	ISO 178	MPa	100
Surface Strain	ISO 178	%	1.1
E-Modulus from Flexural Strength	ISO 178	MPa	14'400
Impact Strength	ISO 179-1	kJ/m ²	9.0
Notched Impact Strength	ISO 179-1	kJ/m ²	3.0

Physical and Thermal Properties:

	Standard	Unit	Value
Density	DIN 53479	g/cm ³	2.0
Water absorption (100 °C/30min)	ISO 62	%	0.1
Glass transition temperature	ISO 6721	°C	115
Thermal conductivity	ISO 8894	W/mK	(0.6)
Coefficient of thermal expansion	ISO 11359-2	ppm/K	34 (< T _g) 37 (> T _g)
Flame retardancy (d = 3mm)	UL 94	Class	V-0

Electrical Properties:

	Standard	Unit	Value
Volume resistivity	IEC 60093	Ωcm	10 ¹⁵
Dielectric loss factor tan δ	IEC 60250	%, 50 Hz, 25 °C	2.4
Dielectric constant ε _r	IEC 60250	--, 50 Hz, 25 °C	5.9
Electric strength (3mm plate)	IEC 60243-1	kV/mm	20
Comparative tracking index	IEC 60112	CTI	600
Comparative tracking index	IEC 60112	CTI-M	250
Dry Arc Resistance	class	ASTM D-495	4

Data in () are guideline values