

PRE-ELEC[®] TP22196

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PRE-ELEC[®] TP22196 is a static dissipative thermoplastic compound based on ABS. The dissipative property is permanent and built into the polymer chain. PRE-ELEC[®] TP22196 has been developed for injection moulding and should be used as such without dilution.

Typical applications include trays, tote bins, crates and technical parts which give permanent ESD protection for the electronics, medical, pharmaceutical and paper handling industries.

Appearance	granule
Colour	grey (RAL7004)
Moisture content	max. 0.15% when produced
Packaging	25 kg polyethylene valve bags, 1000 kg on one way pallet, stretch wrapped or in 1000 kg octabin
Storage	can be stored one year in its original package. Packages should be stored indoors.
Processing	PRE-ELEC [®] TP22196 compound can be processed without modifications in the machines using normal processing conditions as with ABS. Pre-drying is necessary e.g., 3 - 4 hours at 70 - 80 °C in a dehumidifying drier.

Recommended processing parameters

Injection molding	Material temperature	190 - 220 °C
	Mold temperature	30 - 70 °C
	Injection pressure	Moderate
	Injection speed	Moderate

These temperatures can be used for guidance purposes. They will also depend on the equipment used. The instructions of the equipment manufacturer should be followed.

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PHYSICAL PROPERTIES	ISO TEST METHOD	METRIC UNITS	VALUE
Specific gravity		g/cm ³	1.25
Melt Flow Index 200°C / 5.0 kg	1133	g/10min	4
Tensile strength	527	MPa	26
Yield strength	527	MPa	30
Elongation at break	527	%	8
Elongation at yield	527	%	3
Modulus of elasticity	178	MPa	1700
Impact strength, unnotched Charpy 4.0 mm (0.156-in) thickness, 23°C	180	kJ/m ²	50
Impact strength, notched Charpy 4.0 mm (0.156-in) thickness, 23°C	180	kJ/m ²	4
Deflection temperature ² 0.45 MPa	75/ Method Bf	°C	85
1.8 MPa	Method Af	°C	70
Surface resistance	IEC 61340-2-3	Ω	<10¹⁰
Static Decay Rate	IEC 61340-5-1	s	<2
Mould shrinkage	294-4	%	0.7

test specimen: 4.0 mm thick, 10.0 mm wide moulded rod

The information in this data sheet represents typical values obtained by us and should not be regarded as a specification.

We condition that the product will be inspected and qualified by the customer for his process to meet the specific requirements set by application, processing equipment and end product.

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