

# PRE-ELEC<sup>®</sup> TP 17499

PP injection moulding compound  
 Very high electrical conductivity  
 Flammability V-0

Applications: EMI Shielding  
 Enclosures

PRE-ELEC<sup>®</sup> TP 17499 is a preliminary formulation, which is still in its development phase, thus the values and information presented in this document will give a rough estimation of the final product's properties. This product is developed for applications requiring both EMI shielding and flame retardancy. It is easy to injection mould and has excellent mechanical properties combined with low mould shrinkage.

Special properties	Unit	Value	Method
Volume resistivity	Ω.cm	0.6	PRE021
Flammability (*)	-	V-0	RD524

General properties	Unit	Value	Method
Melt flow rate at 230°C 10.0 kg	g/10 min	13	ISO 1133
Vicat, Rate A	°C	159	ISO 306/A50
Vicat, Rate B	°C	115	ISO 306/B50
HDT, 0.45 MPa	°C	151	ISO 75/Bf
HDT, 1.80 MPa	°C	124	ISO 75/Af

Mechanical properties	Unit	Value	Method
Tensile strength	MPa	45	ISO 527
Tensile strain at break	%	26	ISO 527
Flexural modulus	MPa	6900	ISO 178
Impact strength, Charpy	kJ/m <sup>2</sup>		ISO 179
Unnotched, +23°C		26	
Notched, +23°C		10	

Test specimen: injection moulded rod; Thickness: 10 mm, width: 4 mm

\*) In-house testing

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This product is REACH and RoHS compliant

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## Processing instructions

	Unit	Processing range
Injection moulding		
Material temperature	°C	240 - 260
Mould temperature	°C	40 - 70
Injection pressure	Bar	600 - 1000
Injection speed		moderate

## Notes

Drying of the product is recommended for 1-3 hours at 90°C prior to use.

Processing conditions as with filled PP. These parameters are for guidance only. The process parameters should always be optimized for the used equipment. The instructions of the equipment manufacturer should be followed. Caution should be taken when handling molten material as it is extremely hot and may cause severe burns.

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TP 17499-17

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