Technical Datasheet

PRE-ELEC® PP 17147

PP injection moulding compound
Very high electrical conductivity
High HDT

Applications: EMI Shielding
Enclosures

PRE-ELEC® PP 17147 is a proprietary formulation developed for applications requiring EMI-shielding properties. It is easy to injection mould and has excellent properties combined with low mould shrinkage and much higher HDT-values than typical polypropylenes. The material's color is black.

Special properties	Unit	Value	Method
Volume resistivity	Ω.cm	0.25	PRE021
Surface resistance	Ω	6E+02	IEC 61340-2-3
Flammability (*	-	HB	RD524

General properties	Unit	Value	Method
Specific gravity	g/cm3	1.1	ISO 1183
Melt flow rate at 230°C	g/10 min		ISO 1133
10.0 kg		5.3	
Mould shrinkage	%	0.05	ISO 294-4
Vicat, Rate A	°C	155	ISO 306/A50
Vicat, Rate B	°C	95	ISO 306/B50
HDT, 0.45 MPa	°C	149	ISO 75/Bf
HDT, 1.80 MPa	°C	115	ISO 75/Af

Mechanical properties	Unit	Value	Method
Tensile strength	MPa	40	ISO 527
Tensile strain at break	%	1.6	ISO 527
Flexural modulus	MPa	9000	ISO 178
Impact strength, Charpy	kJ/m2		ISO 179
Unnotched, +23°C		9	
Notched, +23°C		6	
Unnotched, -20°C		9	
Notched, -20°C		4	
Hardness, Shore D	-	75	ISO 868

MFR is measured from granulates
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

Visit Premix Data Center for more detailed information of our products at
www.premixgroup.com/data-center-main

Processing instructions

Injection moulding		Unit	Processing range		
	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 2-4 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.

Contact our Sales and Customer Service teams for more information
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