Item Description Item ID

PE extrusion compound Semicondutive Good adhesion to metals

Typical end product Polymer-to-metal adhesive Applications Cables Laminated structures

PE19739

PRE-ELEC[®] PE19739

PRE-ELEC[®] PE 19739 is a conductive thermoplastic adhesive compound based on PE. The grade has good adhesion to aluminium and copper. Conductivity is achieved by using special conductive carbon black. In addition to a low electrical resistivity it has a balance of mechanical properties and is easy to extrude. It can be used as adhesive layer between PE and metal surface.

Unit	Value	Method
Ω.cm	20	PRE021
Unit	Value	Method
g/cm3 g/10 min	1,03	ISO 1183 ISO 1133
°C	3,2 81	ISO 306/A50
°C	45	ISO 306/B50
Unit	Value	Method
MPa % -	22 130 51	ISO 527 ISO 527 ISO 868
	Ω.cm Unit g/cm3 g/10 min °C °C °C Unit MPa %	Ω.cm 20 Unit Value g/cm3 1,03 g/10 min 0,7 °C 81 °C 45 Unit Value MPa 22 % 130

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Processing instructions			
		Unit	Processing range
Extrusion			
	Cylinder temperature profile	°C	140 - 200
	Die temperature profile	°C	160 - 200
	Tool/Roll temperature	°C	50 - 30

Notes

Drying of the product is recommended for 0 hours at 0°C prior to use.

Metal surfaces in direct contact with the compound should be corrosion resistant or nickel/chrome plated. Flush the extrusion line before and after the run with LDPE or suitable cleaning compound. 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.

Storage

Product-specific details are mentioned in the notes above. The general minimum shelf life for Premix's product is 3 years with the following conditions: 1) original package is unopened, 2) the storage area and conditions provide protection from direct sunlight and significant changes in storage temperature, 3) the product is pre-dried accordingly before use.

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