

TECHNOMELT PA 633 (e)

(Electronics) December 2017

PRODUCT DESCRIPTION

TECHNOMELT PA 633 (e) provides the following product characteristics:

Technology	Polyamide	
Appearance	Amber	
Product Benefits	Easy moldability	
	 Good adhesion to a variety of substrates 	
	 Excellent moisture resistance 	
	 Excellent environmental resistance 	
	 Simplified process flow 	
Application	Molding compound thermoplastic	
Typical Applications	Encapsulation	
Operating Temperature	-40 to +125 °C	

TECHNOMELT PA 633 (e) high performance thermoplastic polyamide is designed to meet low pressure molding process requirements. This product can be processed at low processing pressure due to its low viscosity, allowing encapsulation of fragile components without damage.

LIQUID-STATE TYPICAL PROPERTIES

Viscosity @ 210 °C, mPa·s (cP)	3,500
Specific Gravity @ 25 °C	0.98
Softening Point, °C	170 to 180

TYPICAL PROCESS DATA

Handling:

Molding Temperature	, °C	200 to 240

TECHNOMELT PA 633 (e) has been formulated to provide the best possible moldability and as wide a molding latitude as possible. Much of the final molding parameters will be determined by the mold design. Although molding and curing conditions will vary from situation to situation, recommended starting ranges are shown above.

SOLID-STATE PROPERTIES

Physical Properties

Shore Hardness, Shore A	90
Elongation , at break,%	400

Electrical Properties

Dielectric Constant / Dissipation Factor, IEC 60250:	
1MHz	3.8 / 0.086
1 GHz	2.8 / 0.026
1.8 GHz	2.6 / 0.021
Dielectric Strength, kV/mm	24
Volume Resistivity, ohms-cm	1.7×10 ¹³

TYPICAL PERFORMANCE OF SOLID-STATE MATERIAL

Lap Shear Strength:

Steel	N/mm ²	451
	(psi)	(65,395)
FR4	N/mm ²	1,440
	(psi)	(208,800)

PERFORMANCE AND RELIABILITY DATA

Surface Insulation Resistance (SIR) Testing	Pass
IPC-TM-650	

GENERAL INFORMATION

For safe handling information on this product, consult the Safety Data Sheet, (SDS).

Not for product specifications

The technical data contained herein are intended as reference only. Please contact your local quality department for assistance and recommendations on specifications for this product.

STORAGE

Store product in the unopened container in a dry location. Storage information may be indicated on the product container labeling.

TECHNOMELT PA 633 (e) will absorb moisture from the air. Material from opened containers should be transferred immediately into air tight containers. Material should be stored in sealed containers in a cool dry location in order to maximize shelf life.

Material removed from containers may be contaminated during use. Do not return product to the original container. Henkel Corporation cannot assume responsibility for product which has been contaminated or stored under conditions other than those previously indicated. If additional information is required, please contact your local Technical Service Center or Customer Service Representative.

Conversions

(°C x 1.8) + 32 = °F kV/mm x 25.4 = V/mil mm / 25.4 = inches N x 0.225 = lb N/mm x 5.71 = lb/in psi x 145 = N/mm² MPa = N/mm² N·m x 8.851 = lb·in N·m x 0.738 = lb·ft N·m x 0.142 = oz·in mPa·s = cP

Disclaimer

Note

The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the date of this TDS. The product can have a variety of different applications as well as differing application and working conditions in your environment that are beyond our control. Henkel is, therefore, not liable for the suitability of our product for the production processes and conditions in respect of which you use them, as well as the intended applications



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