

TECHNOMELT[®] PA 6771 BLACK

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PRODUCT DESCRIPTION

TECHNOMELT® PA 6771 BLACK provides the following product characteristics:

Technology	Polyamide	
Chemical type	Hot melt adhesive	
Cure	Physical setting	
Appearance	Black	
Components	One-component	
Viscosity	Low	
Application	Molding	
Molding temperature	210°C to 240°C (410°F to 464°F)	
Operating temperature range	-40°C to 100°C (-40°F to 212°F) Depends on application, without mechanical stress	
Specific benefits	 Easy moldability Designed for molding compound applications The product shows excellent UV stability making it suitable for outdoor applications 	

TECHNOMELT® PA 6771 BLACK is a one-component polyamide hot melt adhesive designed to meet low pressure molding process requirements. This product can be processed at low molding pressure due to its low viscosity, allowing encapsulation of fragile components without damage.

Once applied TECHNOMELT® PA 6771 BLACK solidifies to form a barrier between electronics and the environment. It is a resilient encapsulant with good heat stability and moisture resistance. Typical applications include potting electronics modules, molding strain relief into wiring and encapsulation of sensors. It is a versatile adhesive for many substrates such as FR4, metals and many plastics including ABS, PC.

TYPICAL PROPERTIES

Specific gravity @ 20°C, g/cm ³	
ISO 1183-1	1.01
Softening point, °C	
ASTM E28 (in glycerin)	188
Melt viscosity - RVT, mPa·s (cP)	
ASTM D 3236 (spindle 27)	
@210ºC	8,475

TYPICAL PERFORMANCE

Physical		
Shore hardness, Durometer D		29
DIN EN ISO 868/15s		
Elongation, %		500
ISO 527, Specimen no.5		
Cross-head-speed: 50mm/min		
E-Modulus,	N/mm ² psi	66 (9,570)
ASTM D638	por	(0,010)
Low temperature flexibility, °C		-45
ASTM D3111		
Tg glass transition temperature, °C		-55
DSC Second run		
Strength		
Tensile at break	N/mm ²	6.4
ISO 527, Specimen no.5	(psi)	(435)
Yield strength	N/mm ²	4.6
ISO 527, Specimen no.5	(psi)	(667)
Cross-head-speed: 50mm/min		

GENERAL INFORMATION

This product is not recommended for use in pure oxygen and/or oxygen rich systems and should not be selected as a sealant for chlorine or other strong oxidizing materials.

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



Directions for use

- 1. Use gloves to minimize skin contact. DO NOT use solvents for cleaning hands.
- The surfaces of the substrate must be dry and free from oil, grease, and dust.
- 3. Material has been formulated to provide the best possible moldability and as wide a molding latitude as possible.
- 4. Much of the final molding parameters will be determined by the mold design.
- 5. Molding temperature will vary from situation to situation, range shown on this data sheet is a starting range for process development.
- When potting to a substrate with high thermal conductivity the use of a specific application temperature is required for good wetting.
- 7. Do not heat the product above the specified application temperature range.
- 8. When the product is not in use do not apply heat, this will degrade the quality of the product and in extreme cases cause carbonization or charring.
- 9. Carbonized material must be removed mechanically.
- 10. Removal of the thermoplastic material from the hot apparatus can be achieved with solvent free cleaning system, such as Technomelt PA 62 (see separate technical information). Check for availability in your region.

Storage

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

Optimal Storage: Up to 28°C. Storage above 35°C can adversely affect the ability to handle and dispense the material.

Material will absorb moisture from the air. Material from opened containers should be transferred immediately into airtight containers. Material should be stored in sealed containers in a cool location to maximize shelf life.

Material removed from containers may be contaminated during use. Do not return product to the original container. Henkel cannot assume responsibility for product which has beencontaminated or stored under conditions other than thosepreviously indicated. If additional information is required, please contact your local Henkel representative.

Product specification

The technical data contained herein are intended as reference only and are not considered specifications for the product. Product specifications are located on the Certificate of Analysis or please contact Henkel representative.

Approval and Certificate

Please contact Henkel representative for related approval or certificate of this product.

Data Ranges

The data contained herein may be reported as a typical value. Values are based on actual test data and are verified on a periodic basis.

Temperature/Humidity Ranges: 23°C / 50% RH = 23 \pm 2°C / 50 \pm 5% RH

Conversions

 $(^{\circ}C \ge 1.8) + 32 = ^{\circ}F$ kV/mm $\ge 25.4 =$ V/mil mm / 25.4 = inches μ m / 25.4 = mil N $\ge 0.225 =$ lb N/mm $\ge 5.71 =$ lb/in N/mm² $\ge 145 =$ psi MPa $\ge 145 =$ psi MPa $\ge 145 =$ psi N·m $\ge 8.851 =$ lb·in N·m $\ge 0.738 =$ lb·ft N·mm $\ge 0.738 =$ lb·ft N·mm $\ge 0.142 =$ oz·in mPa·s = cP

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