

# TECHNOMELT® PA 652 N

January 2022

#### PRODUCT DESCRIPTION

TECHNOMELT® PA 652 N provides the following product characteristics:

Technology	Polyamide
Product Type	Hotmelt
Condition	Thermoplastic
Appearance	Amber
Components	One-component
Cure	Physical setting
Application	Molding
Operating Temperature	-40 to 100°C (Depends on
Range	application, without mechanical stress)

TECHNOMELT<sup>®</sup> PA 652 N 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.

TECHNOMELT<sup>®</sup> PA 652 N is well suited to applications where excellent adhesion and cold temperature flexibility is essential to the assembly.

#### UL 94 V-0

ASTM EŽ8

TECHNOMELT<sup>®</sup> PA 652 N has been tested to UL 94 V-0. Contact Henkel for details.

#### TYPICAL PROPERTIES OF UNCURED MATERIAL

Density @ 20°C, g/cm³	0.98
Melting Viscosity- RVT, mPa·s (cP)	
ASTM D-3236:	
Spindle 27:	
@ 180°C	9,500
@ 190°C	7,000
@ 200°C	5,400
@ 210°C	4,000
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150 to 165

TYPICAL PERFORMANCE OF CURED MATERIAL

Softening Point (in glycerine), °C

Physical Properties		
Hardness, Shore A		77
ISO 868/15s Elongation, %		400
ISO 527		400
Yield Strength	N/mm²	
Speciman No. 5	(psi)	(377)
Cross-head-speed: 50mm/min ISO 527		
Breaking Strength	N/mm²	2.7
Specimen no.5	(psi)	(392)
Cross-head-speed: 50mm/min		
ISO 527		
Temperature Creep Resistance, °C Henkel Method 11		125
Low Temperature Flexibility, °C ASTM D3111		-50
Glass Transition Temperature (Tg), °C DSC Second run		-45
Electrical Properties		
Volume Resistivity, ohm-cm		1×10 <sup>12</sup>
Dielectric Strength, kV/mm		>14

#### **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 their 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.
- 2. The surfaces of the substrate must be dry and free from oil, grease, and dust.
- 3. When bonding to a substrate with high thermal conductivity the use of a specific application temperature is required for good wetting.
- 4. Do not heat the product above the specified application temperature range.
- 5. 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.
- 6. Carbonized material must be removed mechanically.
- 7. To internally clean the system add TECHNOMELT® 62 to reservoir and continue to purge material until it comes out clean, like fresh TECHNOMELT® 62. Check for availability in your region.
- 8. For cold cleaning of surface soiling on application equipment, conveyor belts or other machine parts TECHNOMELT® CLEANER MELT-O-CLEAN can be applied. It is based on natural citrus extract and facilitates manual cleaning even in case if pronounced charring. Before using TECHNOMELT® CLEANER MELT-O-CLEAN, its suitability for lacquered and synthetic coated surfaces should be tested.

#### Storage:

Store product in the unopened container in a cool 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 removed from containers may be contaminated during use. Do not return product to the original container. Henkel 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 Henkel representative.

#### **Product Specifications**

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.

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±2°C / 50±5% RH

#### Conversions

 $(^{\circ}C \times 1.8) + 32 = ^{\circ}F$  $kV/mm \times 25.4 = V/mil$ mm / 25.4 = inches  $N \times 0.225 = Ib/F$  $N/mm \times 5.71 = Ib/in$  $N/mm^2 \times 145 = psi$   $N/mm^2 = MPa$  $N \cdot m \times 8.851 = lb \cdot in$  $N \cdot m \times 0.738 = lb \cdot ft$  $N \cdot mm \times 0.142 = oz \cdot in$ 

### $mPa \cdot s = cP$ Disclaimer

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