

## Technomelt AS 4226 (e)

(Electronics) August 2016

### PRODUCT DESCRIPTION

Technomelt AS 4226 (e) provides the following product characteristics:

Technology	Synthetic Copolymer
Appearance	Transparent
Components	One-component
Application	Molding compound thermoplastic
Cure	Physical setting
Typical Applications	Hotmelt

Technomelt AS 4226 (e) is used for molding applications.

### TYPICAL MATERIAL PROPERTIES

#### Physical Properties

Softening Point, °C	165
ASTM E28 (in glycerine)	
Viscosity @ 210 °C, mPa·s (cP)	45,000
ASTM D-3236, RVT, Spindle 27	
Hardness, Shore D	45
ISO 868/15s	
Elongation, %	250
ISO 527, Specimen No. 5	
Cross-head-speed: 50mm/min	
Temperature creep resistance, °C	110
Henkel method MH 11	
Low temperature storage, °C	-40
Henkel method MH 40/1000 h	
Glass Transition, °C	-15
(T <sub>g</sub> ) by DSC, 2. Run	
Cold Flex Temperature, °C	-40

#### Electrical Properties

Dielectric Strength, V/mil	782
Dielectric Constant	2.38

### TYPICAL MATERIAL PERFORMANCE

#### Performance

Working Temperature, °C	-40 to 85
Depends on the application, without mechanical stress	
Break Strength	5
ISO 527, Specimen no. 5	
Cross-head-speed: 50mm/min	
Yield Strength	10
ISO 527, Specimen no. 5	
Cross-head-speed: 50mm/min	
Adhesion Strength:	
Matte Soldermask:	
Break Load, N	155
Break Stress, MPa	1.49
Gloss Soldermask:	
Break Load, N	238
Break Stress, MPa	1.64

### 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.

#### Pretreatment:

The substrate should be clean, dry, free of dust, oil, grease and other contaminants.

#### Application:

Application Temperature: 160 to 220°C

Application System: Extrusion and injection molding process

When bonding to a substrate with high thermal conductivity the use of a specific application temperature is required for good wetting. Do not heat the product above the specified application temperature range.

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. Technomelt AS 4226 (e) may absorb moisture from the air. This will not be apparent in the solid form, but may cause bubbles on heating and could affect the bond quality. It is important, therefore, that containers are kept closed and sealed when not in use.

#### Cleaning:

Carbonized and set (non thermoplastic) material must be removed mechanically. Removal of the thermoplastic material from the hot apparatus can be achieved with solvent free cleaning system, such as Technomelt 0062 (see separate technical information).

#### Storage:

Store in a cool, dry location, with the container tightly closed. When not in used, this product will have a shelf life of at least 12 months.

#### Conversions

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

## 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 and results. We strongly recommend that you carry out your own prior trials to confirm such suitability of our product.

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