TECHNOMELT

Technical Data Sheet

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

Electrical Properties

Dielectric Strength, V/mil	782
Dielectric Constant	2.38

TYPICAL MATERIAL PERFORMANCE

Performance

Working Temperature, ºC Depends on the application, without mechanical stress	-40 to 85
Break Strength ISO 527, Specimen no. 5 Cross-head-speed: 50mm/min	5
Yield Strength ISO 527, Specimen no. 5 Cross-head-speed: 50mm/min	10
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 220ºC
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

(°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·mm x 0.142 = oz·in
mPa·s = cP

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Disclaimer

Note:

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