



BOSTIK

THERMELT® TC916

Provisional Technical data sheet POLYAMIDE HOT MELT RESIN

KEY FEATURES

- Thermal conductivity
- Good adhesion
- Process with hotmelt extrusion system

PRODUCT DESCRIPTION

Thermelt® TC916 is a non-reactive copolyamide hot melt compound, specially designed for Low Pressure Molding applications, with heat management challenges.

APPLICATIONS

Thermelt® TC916 is mainly used for encapsulation of electronic/electric components, with heat management challenges. An extrusion system is necessary to process the product and ensure homogeneous properties.

PHYSICAL PROPERTIES

INDICATIVE DATA	VALUE	STANDARD TEST
Melt Flow Index (MFI) (160°C, 2.16kg)	[g/10min] 60	ASTM D1238
Softening point (R&B)	[°C] 146	ASTM D36
Water content	[%] <0.2	Bostik
Hardness (23°C, 15s)	[Shore D] 40	ISO 868
Density	1.4	ISO 1183
Glass transition (DSC)	[°C] -10	Bostik
Flammability	V2	UL 94, Internal Test
Colour	Dark grey	
Commercial shape	Pellets	

THERMELT®

MECHANICAL PROPERTIES

INDICATIVE DATA	VALUE	STANDARD TEST
Max Stress (50 mm/min, 23°C)	[MPa] >9	ISO 527
Elongation at break (50 mm/min, 23°C)	[%] >30	ISO 527
Young modulus (50 mm/min, 23°C)	[MPa] >250	ISO 527

CONDUCTIVE PROPERTIES

INDICATIVE DATA	VALUE	STANDARD TEST
Surface resistivity	[Ω] ~10 ⁹	IEC 62631-3
Thermal conductivity (23°C)	[W/m.K] 1.5 - 1.7 (xy) 0.6 - 0.8 (z)	ASTM D5930 ASTM D5470

PROCESSING CONDITIONS

RECOMMENDED PARAMETERS	VALUE
Melt Temperature Range	[°C] 210 - 240
Drying Time (Air oven, thin layer)	[h] 6
Drying Temperature	[°C] 80

Thermelt® TC916 should only be used in an extruder.

PACKAGING

For existing packaging sizes, please call your Bostik sales representative.

STORAGE STABILITY

The product has a shelf life of 12 months when properly stored in a cool and dry location in closed original packing. Thermelt® TC916 will absorb moisture from the air. Because of risk of moisture absorption, we highly recommend to store any open bag in a close container.

FURTHER INFORMATION

The following publication is available on request:

- Safety Data Sheets (SDS)
- Regulatory Information Sheet (RIS)

The information given and recommendations made herein are based on Bostik's research only and are not guaranteed to be accurate. The performance of the product, its shelf life, and application characteristics will depend on many variables, including the kind of materials to which the product will be applied, the environment in which the product is stored or applied, and the equipment used for application. Any change in any of these variables can affect the product's performance. It is the buyer's obligation, prior to using the product, to test the suitability of the product for an intended use under the conditions that will exist at the time of the intended use. Bostik does not warrant the product's suitability for any particular application. The product is sold pursuant to Bostik's Terms and Conditions of Sale that accompanies the product at the time of sale. Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute permission, inducement, or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

SMART HELP

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