

# **THERMELT 870 Natural**

## **POLYAMIDE HOT MELT RESIN**

#### KEY FEATURES

- Mainly Industrial applications
- Standard molding resins
- Flammability UL94 : V0 (UL file E116659)



THERMELT 870 natural is a pure copolymer polyamide hot melt resin, non reactive and solvent free, specially designed for Low Pressure Molding applications.

#### **APPLICATIONS**

THERMELT 870 is mainly used for molding of electronic/electric components, connectors and cables.

SPECIFICATIONS					
PHYSICAL PROPERTIES		VALUE	STANDARD TEST		
Viscosity Brookfield (210°C, SC4, 50 RPM)	[Pa.s]	4.0-6.0	ASTM D3236		
Softening point	[°C]	139-149	ASTM D3461		
Water Content	[%]	< 0.2	Bostik		
Commercial shape		Pellets / Sticks			
Packaging		20Kg bag / 16Kg cardboard			

INDICATIVE VALUE					
THERMAL PROPERTIES		VALUE	STANDARD TEST		
Vicat temperature (A 120, 10N, 120°C/h)	[°C]	/	ISO306		
Glass transition (DSC)	[°C]	- 10	Bostik		
MECHANICAL PROPERTIES		VALUE	STANDARD TEST		
Yield strength (50 mm/min, 23°C)	[MPa]	4.6	ISO 527		
Strength at break (50 mm/min, 23°C)	[MPa]	6	ISO 527		
Elongation at break (50 mm/min, 23°C)	[%]	590	ISO 527		
Young modulus (50 mm/min, 23°C)	[MPa]	47	ISO 527		

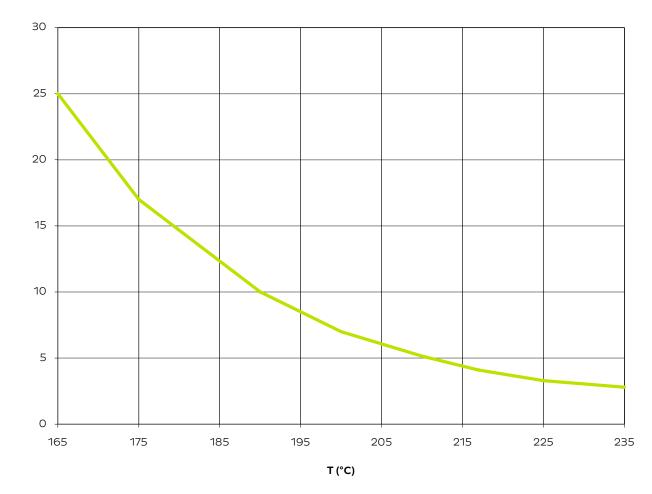


INDICATIVE VALUE					
MISCELLANEOUS PROPERTIES		VALUE	STANDARD TEST		
Density		~1	Internal test		
Water absorption (immersed, 23°C)	[%]	2.0	ISO 62		
Hardness (23°C)	[Shore D]	47	ISO 868		

PROCESSING CONDITIONS				
RECOMMENDED PARAMETERS		VALUE		
Melt Temperature Range	[°C]	180-210		
Mold Temperature Range	[°C]	20-60		
<b>Drying Time</b> (Air oven, thin layer)	[h]	8		
Drying Temperature	[°C]	70		
Processing Moisture Content	[%]	< 0.2		

THERMELT 870 can be used in both melter and extruder.

### Viscosity curve versus temperature



#### **STORAGE STABILITY**

Viscosity (Pa.s)

The product has a shelf life of 18 months when properly stored in a cool and dry location in closed original packing.

Thermelt 870 will absorb moisture from the air. Because of risk of moisture absorption, we highly recommend to store any open bag in a close container.

#### **REGULATION**

No substance mentioned in the candidate list of SVHC for authorization published by the European Chemical Agency (16/12/2013), is present at a concentration higher than 0.1% (w/w).

We certify that our products comply with the European directive 2011/65/EU, also called the RoHS directive. We don't introduce intentionally phthalate derivatives or Phosphorus Elemental (CAS 7723-14-0) in the manufacturing of our Polyamide adhesives.

MSDS is available on www.quick-fds.com

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

Please contact your local representative

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