

# **THERMELT 861 Natural**

## **POLYAMIDE HOT MELT RESIN**

#### KEY FEATURES

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



THERMELT 861 natural is a pure copolymer polyamide hot melt resin, non reactive and solvent free, specially designed for Low Pressure Molding applications.

### **APPLICATIONS**

THERMELT 861 is mainly used for molding of electronic/electric components, connectors and cables.

SPECIFICATIONS				
PHYSICAL PROPERTIES		VALUE	STANDARD TEST	
Viscosity Brookfield (220°C, SC4, 50 RPM)	[Pa.s]	2.7-4.2	ASTM D3236	
Softening point	[°C]	154-166	ASTM D3461	
Water Content	[%]	< 0.2	Bostik	
Commercial shape		Pellets		
Packaging		20Kg bag		

THERMAL PROPERTIES         VALUE         STANDARD TEST           Vicat temperature (A 120, 10N, 120°C/h)         [°C]         43         ISO306           Glass transition (DSC)         [°C]         - 30         Bostik           GWFI         [°C]         960         UL746A           GWTI         [°C]         700         UL746A           MECHANICAL PROPERTIES         VALUE         STANDARD TEST           Yield strength (50 mm/min, 23°C)         [MPa]         4.1         ISO 527           Strength at break (50 mm/min, 23°C)         [MPa]         4.0         ISO 527	INDICATIVE VALUE				
Glass transition	THERMAL PROPERTIES	VALUE	STANDARD TEST		
C  -30   Bostik	. 1.6(1)	43	ISO306		
GWTI [°C] 700 UL746A  MECHANICAL PROPERTIES VALUE STANDARD TEST  Yield strength (50 mm/min, 23°C) [MPa] 4.1 ISO 527  Strength at break [MPa] 4.0 ISO 527	[°C]	- 30	Bostik		
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		4.1	ISO 527		
		4.0	ISO 527		
Elongation at break [%] 310 ISO 527		310	ISO 527		
Young modulus (50 mm/min, 23°C) [MPa] 49 ISO 527		49	ISO 527		

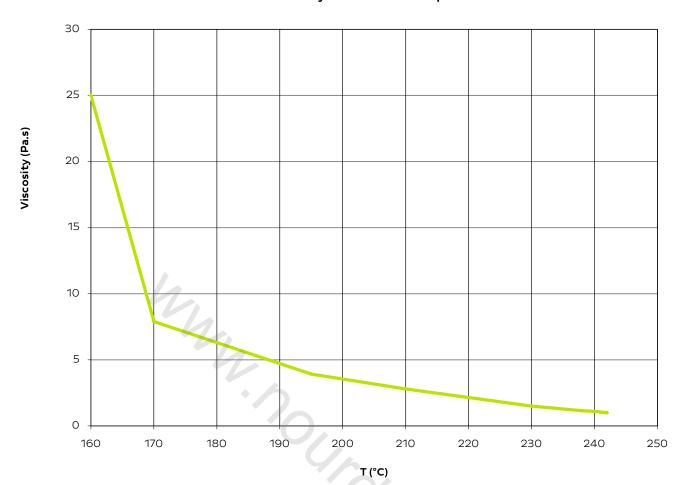


INDICATIVE VALUE					
MISCELLANEOUS PROPERTIES		VALUE	STANDARD TEST		
Density		~1	Internal test		
Water absorption (immersed, 23°C)	[%]	2.8	ISO 62		
Hardness (23°C)	[Shore D]	38	ISO 868		

PROCESSING CONDITIONS				
RECOMMENDED PARAMETERS		VALUE		
Melt Temperature Range	[°C]	190-210		
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 861 can be used in both melter and extruder.

#### Viscosity curve versus temperature



#### **STORAGE STABILITY**

The product has a shelf life of 18 months when properly stored in a cool and dry location in closed original packing. Thermelt 861 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  $% \left( 1\right) =\left( 1\right) \left( 1\right)$ 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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