



elemelt®

Technical Data:

elemelt PA513

Description:

Pure copolymer polyamide hot melt resin, non reactive and solvent free, specially designed for Low Pressure Molding applications.

Applications:

Mainly used for molding of electronic/electronic components, connectors and cables

Key Features:

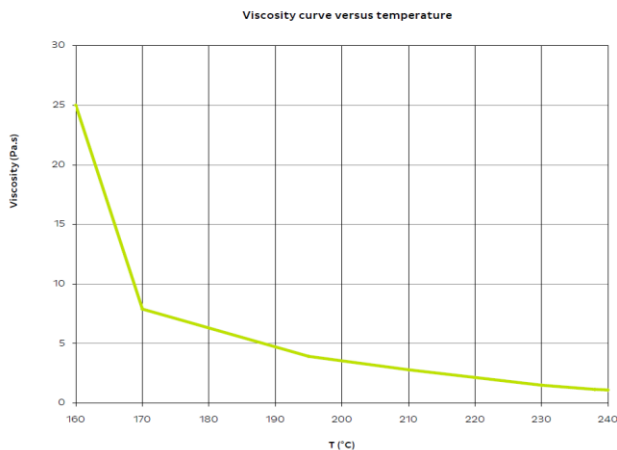
Mainly Industrial applications
Standard molding resins
Flammability UL94:V0
(UL file E116659)
Enhanced UV Resistance

Specifications		
Physical Properties	Value	Standard Test
Viscosity Brookfield [Pa.s]	2.7 - 4.2	ASTM D3236
Softening Point [°C]	154 - 166	ASTM D3461
Water Content [%]	<0.2	ASTM D2216-90
Commercial shape	Pellets	
Packaging	20 Kg bag	

Indicative Value		
Thermal Properties	Value	Standard Test
Vicant temperature [°C] (A 120, 10N, 120°C/h)	45	ISO 306
Glass transition [C°] (DSC)	-30	ASTM D7028-07
Mechanical Properties	Value	Standard Test
Strength at break [Mpa] (50 mm/min, 23°C)	3.8	ISO 527
Young modules [Mpa] (50 mm/min, 23°C)	51	ISO 527
Yield Strength [Mpa] (50 mm/min, 23°C)	4.1	ISO 527

Indicative Value		
Miscellaneous Properties	Value	Standard Test
Density	~1	Internal Test
Water absorption [%] (immersed, 23°C)	2.6	ISO 62
Hardness [Shore D] (23°C)	39	ISO 868
Processing Conditions		
Recommended Parameters	Value	
Melt Temperature [°C]	190 - 210	
Mold Temperature Range [°C]	20 - 60	
Drying Time (air oven, thin layer) [h]	8	
Drying Temperature [°C]	70	
Processing Moisture Content [%]	<0.2	

elemelt PA513 can be used in both melter and extruder.



Storage Stability

The product has a shelf life of 18 months when properly stored in a cool and dry location in closed original packaging. Elemelt PA-513 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 RoHS directive. We don't introduce intentionally phthalate derivatives or Phosphorus Elemental (CAS 7723-14-0) in the manufacturing of our Polyamide adhesives.

The information given and recommendations made herein are based on 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. Ellsworth Adhesives does not warrant the product's suitability for any particular application. The product is sold pursuant to Ellsworth Adhesives Terms and Conditions of Sale that accompanies the product at the time of sale. Nothing contained herein shall be constituted premission, inducement, or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.