



Guangzhou Nord New Material Technology Co., Ltd.

Innovative Low Pressure Molding Technology

Technical Data Sheet

POLYMELT PA 558

(Electronics) May-2019

PRODUCT DESCRIPTION

POLYMELT PA 558 provides the following product characteristics:

Technology	Polyamide
Appearance	Black / Amber
Product Benefits	<ul style="list-style-type: none">• Easy moldability• Good adhesion to a variety of substrates• Excellent moisture resistance• Excellent environmental resistance• Simplified process flow
Application	Molding compound thermoplastic
Typical Applications	Encapsulation
Flammability Rating	UL 94 V0
Operating Temperature	-40 to +125 °C

POLYMELT PA 558 high performance thermoplastic polyamide is designed to meet low pressure molding process requirements. This product can be processed at low processing pressure due to its low viscosity, allowing encapsulation of fragile components without damage. This material produces no toxic fumes in process and provides a good balance of low and high temperature performance.

Typical Applications

POLYMELT PA 558 has been formulated to provide the best possible moldability and as wide a molding latitude as possible. Much of the final molding parameters will be determined by the mold design. Although molding and curing conditions will vary from situation to situation, recommended starting ranges are shown above.

Material Properties

Viscosity @ 200 °C, mPa • s (cP)	300 to 850
Density, g/cm ³	0.98
Softening Point, °C	160 ± 5 °C
Molding Temperature, °C	180 to 200
Shore Hardness, Shore A	96
Elongation , at break,%	150
Tensile strength , Mpa	>10
Dielectric Strength, kV/mm	19
Transversal Resistivity, ohms-cm	1.3×10^{13}
Moisture absorption,%	0.6
Water content, %	2.8
Processing Moisture Content, %	<0.2
Mold Temperature Range, °C	20 to 60
Drying Time, H	about 2
(Air oven, thin layer)	1 to 8
Drying Temperature, °C	70
Shrinkage, %	1.0 to 1.5

Operating Characteristics

This product doesn't produce the excitant material when it is a solid. After melting into high temperature glue, it can lead to severe burns, Before using the security measures including protective gloves and goggles. (More details, please refer to MSDS of this product.)

Directions For Use

Pouring the product into injection machines, melting under the conditions of 180~200°C, put some pressure on injection for the cooling and molding.

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.

Notice

Keep out of reach of children.

In case of contact with skin, rinse with clean water firstly, don't wipe the skin and call a physical attention immediately.

More details, please refer to MSDS of this product.

Package

20kg/bag.

Storage

Store product in the unopened container in a dry location. Storage information may be indicated on the product container labeling.

POLYMELT PA 558 will absorb moisture from the air. Material from opened containers should be transferred immediately into air tight containers. Material should be stored in sealed containers in a cool dry location in order to maximize shelf life.

Material removed from containers may be contaminated during use. Do not return product to the original container. Nord New Material cannot assume responsibility for product which has been contaminated or stored under conditions other than those previously indicated. If additional information is required, please contact your local Technical Service Center or Customer Service Representative.

Shelf life: 24 months.



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