



# MM6208S

November 2009

## PRODUCT DESCRIPTION

Macromelt®MM6208S provides the following product characteristics:

<b>Technology</b>	Polyamide
<b>Appearance</b>	Black
<b>Product Benefits</b>	<ul style="list-style-type: none"> <li>• Easy moldability</li> <li>• Good adhesion to a variety of substrates</li> <li>• Excellent moisture resistance</li> <li>• Excellent environmental resistance</li> <li>• Simplified process flow</li> </ul>
<b>Application</b>	Molding compound thermoplastic
<b>Typical Application</b>	Encapsulation
<b>Flammability</b>	94 V-0
<b>Operating Temperature</b>	-40 to +130 °C

MM6208S 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. MM6208S exhibits great flexibility in applications requiring strain relief and is ideal for encapsulation of heat-producing components.

MM6208S meets UL 94 V-0 Flammability at 3.175mm thickness. RTI rating of 95°C.

## LIQUID-STATE TYPICAL PROPERTIES

Viscosity @ 210 °C, mPa·s (cP)	3,600
Specific Gravity @ 25 °C	0.98
Shelf Life @ 25°C, years	2
Softening Point, °C	150 to 160
Flash Point - See MSDS	

## TYPICAL PROCESS DATA

### Handling:

Molding Temperature, °C	190 to 230
Typical Cycle Time, seconds	30 to 75

MM6208S 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.

## SOLID-STATE PROPERTIES

### Physical Properties:

Thermal Conductivity, W/mk	0.15
Glass Transition Temperature, °C	-42
Shore Hardness, Shore A	78
Elongation, at break, %	600

### Electrical Properties:

Dielectric Constant / Dissipation Factor, IEC 60250:

1MHz	3.7 / 0.084
1 GHz	2.7 / 0.27
1.8 GHz	2.8 / 0.028

Dielectric Strength, kV/mm	23
Volume Resistivity, ohms-cm	$1.6 \times 10^{11}$

## GENERAL INFORMATION

**For safe handling information on this product, consult the Material Safety Data Sheet, (MSDS).**

### 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.

### Storage

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

Macromelt®MM6208S 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. Henkel Corporation 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.

### Conversions

$(^{\circ}\text{C} \times 1.8) + 32 = ^{\circ}\text{F}$   
 $\text{kV/mm} \times 25.4 = \text{V/mil}$   
 $\text{mm} / 25.4 = \text{inches}$   
 $\text{N} \times 0.225 = \text{lb}$   
 $\text{N/mm} \times 5.71 = \text{lb/in}$   
 $\text{N/mm}^2 \times 145 = \text{psi}$   
 $\text{MPa} \times 145 = \text{psi}$   
 $\text{N}\cdot\text{m} \times 8.851 = \text{lb}\cdot\text{in}$   
 $\text{N}\cdot\text{m} \times 0.738 = \text{lb}\cdot\text{ft}$   
 $\text{N}\cdot\text{mm} \times 0.142 = \text{oz}\cdot\text{in}$   
 $\text{mPa}\cdot\text{s} = \text{cP}$

**Note**

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