



# Macromelt



## Macromelt Circuit Board Protection Products

**Macromelt** circuit board protection products provide good adhesion, an excellent environmental seal, high in-service temperature resistance, and good resistance to solvents. The low melt viscosity of these materials allows for low capital equipment cost and low molding pressure that will not damage delicate electronic surface mount components.

Low-pressure molding is the solution to production issues associated with traditional high-pressure injection molding over sensitive electronic components or circuit boards. The polyamide hot melt adhesive material may actually be used to mold-in mounting studs or eyes, eliminate injection molded housings and covers, and replace epoxy potting operations all in one simple process. The materials also provide great strain relief in molded grommets and connectors.



Excellence is our Passion

# Macromelt Circuit Board Protection Products

## Macromelt Applications

- Automotive Sensors
- Hall Effect Sensors
- Circuit Board Protection
- Strain Relief
- Switches
- Battery Sealing

## Macromelt Advantages

- Complete watertight encapsulation
- Fast cycle time (15-45 seconds)
- Low capital equipment costs
- Safe, 1-component, UL 94-Vo Approved
- Low pressure and high speed molding for electronics encapsulation



### Polyamide. Increased Hardness

PRODUCT	DESCRIPTION	COLOR	PERFORMANCE TEMPERATURE	SHORE A HARDNESS	SOFTENING POINT
OM 341	High-performance thermoplastic polyamide designed to offer blaze orange color for easy identification of components. Typically used to encapsulate high voltage modules.	Blazed Orange	-25 to 125°C	92	173 ± 5°C
OM 641	Moldable polyamide where strength and hardness are needed such as in memory sticks and computer connectors.	Amber	-40 to 130°C	92	175 ± 5°C
OM 646		Black			
OM 648	UV stability and suitable for outdoor applications.	Black	-40 to 130°C	93	175 ± 5°C

### Polyamide. High Temperature Resistance

PRODUCT	DESCRIPTION	COLOR	PERFORMANCE TEMPERATURE	SHORE A HARDNESS	SOFTENING POINT
OM 673	Moldable polyamide with good adhesion for higher temperature applications such as in an automotive under-hood.	Amber	-40°C to 140°C	90	187 ± 5°C
OM 678		Black			
OM 682	Moldable polyamide for the most demanding high humidity applications such as on the inside of an automobile tire. Formulated for very low water vapor transmission.	Amber	-40°C to 140°C	88	188 ± 5°C
OM 687		Black			

### Polyamide. Adhesion to Plastics

PRODUCT	DESCRIPTION	COLOR	PERFORMANCE TEMPERATURE	SHORE A HARDNESS	SOFTENING POINT
OM 633	Moldable polyamide with service temperature up to 125°C such as in an automotive firewall.	Amber	-40°C to 130°C	90	175 ± 5°C
OM 638		Black			
OM 652	Moldable polyamide where excellent adhesion and cold temperature flexibility are important such as in an automotive exterior. Also used extensively in white goods.	Amber	-40°C to 100°C	77	157 ± 5°C
OM 657		Black			
MM 6208	Moldable polyamide with excellent adhesion to tough substrates. Great flexibility offers incredible strain relief on cables and wires. Ideal for encapsulation of heat-producing components in appliance and consumer electronics. UL RTI 95°C.	Amber	-40°C to 110°C	78	155 ± 5°C
MM 6208S		Black			

### Polyolefin. Excellent Adhesion to Metals, Plastics, Tough Surfaces

PRODUCT	DESCRIPTION	COLOR	PERFORMANCE TEMPERATURE	SHORE A HARDNESS	SOFTENING POINT
MM Q-5375	Moldable polyolefin for demanding moisture and solvent resistance. Excellent adhesion to the most difficult substrates.	Opaque White	-30°C to 100°C	55	139 ± 5°C

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