

Low Pressure Molding



TECHNOMELT® Low Pressure Molding

Traditional high-pressure injection molding includes an intensive eight-step process that results in long production cycles and increased costs.

Henkel's TECHNOMELT® Low Pressure Molding reduces the process to three steps, while offering improved sealing and better protection of fragile electronics components.

TECHNOMELT® Molding Process Flow



TECHNOMELT® Low Pressure molding was used to over mold the product below, these photos illustrate the production process from start to finish.



Case Application –

Automotive Sensor: 2C Casting vs. TECHNOMELT® Molding

Low pressure applied during the molding process prevents damage to the sensitive electronic components and element. The molding protects the electronics from external influences and is capable of serving as a housing.



Polyamide: Increased Hardness

PRODUCT	DESCRIPTION	COLOR	PERFORMANCE TEMPERATURE	SHORE A HARDNESS	SOFTENING POINT
TECHNOMELT® OM 341™	High-performance thermoplastic polyamide designed to offer blazed orange color for easy identification of components. Typically used to encapsulate high voltage modules.	Blazed Orange	-25 to 125°C	92	173 ± 5°C
TECHNOMELT® 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
TECHNOMELT® OM 646™		Black			

Polyamide: Adhesion to Plastics

PRODUCT	DESCRIPTION	COLOR	PERFORMANCE TEMPERATURE	SHORE A HARDNESS	SOFTENING POINT
TECHNOMELT® OM 633™	Moldable polyamide with service temperature up to 125° C such as in automotive firewall	Amber	-40 to 130°C	90	175 ± 5°C
TECHNOMELT® OM 638™		Black			
TECHNOMELT® 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 to 100°C	77	157 ± 5°C
TECHNOMELT® OM 657™		Black			
TECHNOMELT® 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° CR	Amber	-40 to 110°C	78	155 ± 5°C
TECHNOMELT® MM 6208S™		Black			

Polyamide: High Temperature Resistance

PRODUCT	DESCRIPTION	COLOR	PERFORMANCE TEMPERATURE	SHORE A HARDNESS	SOFTENING POINT
TECHNOMELT® OM 673™	Moldable polyamide with good adhesion for higher temperature application such as in an automotive under hood	Amber	-40 to 140°C	90	187 ± 5°C
TECHNOMELT® OM 678™		Black			

Polyolefin: Excellent Adhesion to Metals, Plastics, Tough Surfaces

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

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AQUENCE®

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