POLYMARK RESIN SYSTEMS

Technical Data Sheet

A438

Clear, Heat-Curable Silicone Coating

Description
A438 is an optically clear, heat-curing, low stress coating designed for electronic and microelectronic applications. It provides mechanical and environmental protection to delicate electronic devices.

Advantages
The A438 is a stable one-part coating that will bond to most surfaces after curing. Its viscosity allows for a controlled flow of the material upon application. As with most silicones, it has excellent moisture and heat resistance. A438 cures to a tough, tear resistant hardness while still providing low stress to most electronic components.

User Instructions
Storage: A438 is stable at room temperature. However, refrigeration will extend the shelf life.

In order to insure the best adhesion of this coating and device protection, be sure that the substrate surface is clean and dry prior to application.

Safety Precautions
This product may be a skin and eye irritant. Closely follow the instructions on the Material Safety Data Sheet.

Handling Properties

Viscosity @ 10 rpm	35,000 cps
Shelf life at 25 °C	3 months
at 0°C	6 months

Recommended Cure Schedule:

Time in 150°C oven	1 hour

Typical Physical Properties

Cured Appearance	Clear
Operating Temperature Range	-50°C to 180°C
Hardness	Shore A45
Tensile Strength	150 psi
Glass Transition Temperature	-45°C
% Solids	100%
Specific Gravity	1.01

Ionic Properties

F^-	< 5 ppm
Cl^-	< 10 ppm
NH_4^+	< 5 ppm
Na^+	< 5 ppm
K^+	< 5 ppm

Materials such as water, sulfur, nitrogen compounds, organic metal salts, phosphorous compounds etc., contained in the surface of the substrate may cause cure inhibition. A sample patch test should always be conducted before proceeding to determine compatibility. Particular care should be taken with organic rubbers, flux, amine cured epoxy resins, various waxes and condensation type silicone rubbers.

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