



Technical Data Sheet

POLYMARK UV525D

UV CURABLE POLYURETHANE DOMING

Product Description:

UV525D is a clear polyurethane doming resin, formulated for fast cure even under low power UV lamp systems while providing minimal shrinkage. UV525D adapts itself to use with automated or manual dispensing equipment. Through cure to 1/8" can be accomplished in less than 10 seconds with a 15 mW/cm² medium pressure Hg UV lamp. The adhesion of UV525D to substrates such as polycarbonate, polyester, acrylic, most metals and other common label and emblem substrates is excellent.

It is non-abrasive to dispensing equipment and well suited to automated operations. UV525D is a DOT non-hazardous material and conforms to RoHS and REACH restrictions.

Typical Product Handling Properties:

<u>CHARACTERISTIC</u>	<u>VALUE</u>
Color:	Clear Liquid
Viscosity:	1,000 cps
Specific Gravity at 23°C:	1.13 g/cc
Gel Time*:	<5 seconds

* Cure to 0.125" under 500 mW/cm² med. press. Hg lamp

Typical Cured Physical Properties

<u>CHARACTERISTIC</u>	<u>VALUE</u>
Glass Transition Temperature:	18°C
Shore D Hardness:	D-70
Polycarbonate Tear Test:	Substrate Failure
Tensile Strength:	1,450 psi
Elongation:	16%, ASTM Die C
Shrinkage upon thin film cure:	1.8%

UV525D has been formulated for a medium-low viscosity. However, Polymark is able to offer this product in other viscosities that may be more suitable for a particular application. Contact your Polymark representative for more information about these options.

UV525D should be stored in a dark, cool environment. Recommended maximum storage temperature is 30°C. UV525D is sensitive to ambient light. Avoid exposure to unintended sources of light as this could initiate polymerization causing skinning or thickening of the material. Containers should be kept sealed airtight when not in use.

Handling Safeguards:

Closely follow instructions on the labels of Polymark materials containing information on the hazards associated with each particular product. Most polyurethane resin systems are skin and eye irritants. Other problems, such as skin sensitization and more serious health hazards may exist. Consult the Material Safety Data Sheet for further information.

Rev. 2/18

Important Notice to Users: Typical properties are shown in this technical bulletin and should not be used or taken as specifications. Contact Polymark prior to establishing specifications. The information given for product description, handling properties and cured physical properties are offered solely to assist the purchaser's own testing. Polymark, its sales agents and distributors make NO WARRANTY OF MERCHANTABILITY OF THE PRODUCT OR THE FITNESS OF THE PRODUCT FOR ANY PARTICULAR PURPOSE. This product and all information supplied in connection with it is used at the purchaser's own risk, conditions of use being beyond Polymark's knowledge or control. The purchaser assumes all risk of use or handling of the product, whether in accordance with directions or not.