

DESCRIPTION

U-793 is a urethane resin functionalized with a methacrylate and an epoxy. The cured resin yields a tough hydrophobic polymer. The hybrid nature of the monomer allows for varying cure mechanisms to be incorporated into a formulation. The resin can act as an adhesion promoter to various substrates.

HIGHLIGHTS

- Excellent toughener
- Hydrophobic
- Dual cure mechanism
- Flexible
- Adhesion promoter
- Good thermal stability

TYPICAL PHYSICAL AND CHEMICAL PROPERTIES

| PROPERTY | METHOD | RESULT |
|--------------------------------|-----------------|---------------|
| Appearance at Room Temperature | Visual | Brown liquid |
| Viscosity @ 25°C (typical) | Haake Rheometer | 4,300 cP |
| Density | | 1.0 g/cc |
| Flash Point | Closed Cup | > 176°C |
| Functionality | | 2 |
| Molecular Weight | | 793 daltons |
| Weight Loss @ 300°C | TGA | 11% |
| Decomposition Temperature | TGA | > 280°C |
| Recommended Storage Temp | | 10°C or below |

Data is for reference only and may vary depending on testing method used

RECOMMENDED FORMULATION USE:

U-793 is recommended for use as an adhesion promoter. At 5-15% levels, it can significantly increase the adhesion to polyimide surfaces as well as metal surfaces. U-793 can be used in hybrid chemical systems where toughness is critical.

CONTACT:

REQUEST A SAMPLE OR PLACE AN ORDER

Customer Support

☎ 858-348-1122

✉ support@designermoleculesinc.com

REF: DMI Part Number: R1095