

CYCOM® 977-20 RTM

Epoxy; Epoxide
Cytec Industries Inc.

Message:

CYCOM® 977-20 RTM with PRIFORM™ Technology is a 177°C (350°F) curing toughened liquid epoxy resin system. CYCOM 977-20 RTM with PRIFORM Technology is formulated as the RTM version of Cytec Engineered Materials' established CYCOM® 977-2 toughened epoxy prepreg resin. CYCOM 977-2 is widely used in many aerospace applications including primary and secondary aircraft structures, space and ballistics structures or any application requiring excellent impact resistance. CYCOM 977-20 RTM resin has a low viscosity to allow injection at temperatures between 60°C and 85°C (140°F and 185°F) without the need for excessive heating of resin transfer pipe work or high injection pressures. After injection, the resin viscosity decreases to below 50 cP, thus helping to ensure full fiber wetting. CYCOM 977-20 RTM resin is fully cured following a three-hour dwell at 177°C (350°F) after which it has a service temperature of 135°C (275°F). CYCOM 977-20 RTM resin must be used in conjunction with Cytec Engineered Materials' patented PRIFORM hybrid fabrics in order to achieve cured performance properties equivalent to CYCOM 977-2 prepreg materials. The unique self-binding aspect of PRIFORM reinforcements removes the need for ancillary binder products and allows the manufacture of high quality preforms. The level of self-binding can be tailored from lightly stabilized, to aid cutting and handling of single plies, to highly compacted for high fiber volume preform construction.

| General Information | |
|---------------------|---------------------------|
| Features | Good Compressive Strength |
| | Heat Cure |
| | High Impact Resistance |
| | Low Viscosity |
| Uses | Aerospace Applications |
| | Structural Parts |
| Forms | Liquid |

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