

## Dow BETAMATE™ XW 1044-3 Epoxy

Category : Polymer , Thermoset , Epoxy

### Material Notes:

BETAMATE™ XW 1044-3 is a one component, epoxy based adhesive especially developed for the body shop. The adhesive can be applied by robot systems and it shows high adhesion to metal and non-metal surfaces. Information provided by Dow

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Dow-BETAMATE-XW-1044-3-Epoxy.php](http://www.lookpolymers.com/polymer_Dow-BETAMATE-XW-1044-3-Epoxy.php)

Physical Properties	Metric	English	Comments
Density	1.31 - 1.37 g/cc	0.0473 - 0.0495 lb/in <sup>3</sup>	
Solids Content	>= 99 %	>= 99 %	
Viscosity	650000 cP	650000 cP	cone/plate
	@Shear Rate 1.00 1/s, Temperature 40.0 °C	@Shear Rate 1.00 1/s, Temperature 104 °F	
	4.00e+6 cP	4.00e+6 cP	cone/plate
	@Shear Rate 1.00 1/s, Temperature 23.0 °C	@Shear Rate 1.00 1/s, Temperature 73.4 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	35.0 MPa	5080 psi	ISO 527-1
Elongation at Break	2.3 %	2.3 %	ISO 527-1
Modulus of Elasticity	2.90 GPa	421 ksi	ISO 527-1
Adhesive Bond Strength	16.9 MPa	2450 psi	Lap Shear (25 x 10 x 0.2 mm) (CRS St 1203); EN 1465
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	23.7 MPa	3440 psi	Lap Shear (25 x 10 x 0.2 mm) (CRS St 1203); EN 1465
	@Thickness 1.50 mm	@Thickness 0.0591 in	
Peel Strength	3.70 kN/m	21.1 pli	T-Peel (CRS St 1203, 0.5mm)
	8.00 kN/m	45.6 pli	

Thermal Properties	Metric	English	Comments
Flash Point	>= 150 °C	>= 302 °F	

Processing Properties	Metric	English	Comments
	30.0 min	0.500 hour	

Cure Time  
Processing Properties

Metric  
@ Temperature 180 °C

English  
@ Temperature 356 °F

Comments

## Contact Songhan Plastic Technology Co.,Ltd.

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