

**Resinlab® EP1026HP Epoxy Adhesive**

Category : Polymer , Adhesive , Thermoset , Epoxy , Epoxy Adhesive

Material Notes:

Resinlab™ EP1026HP is a high performance fast setting epoxy adhesive designed for bonding metals, ceramics, glass and most plastics. This product gives good resistance to water salt spray, inorganic acids and bases and most organic solvents.Information Provided by Resinlab L.L.C., an Ellsworth Adhesives Company.

Order this product through the following link:  
[http://www.lookpolymers.com/polymer\\_Resinlab-EP1026HP-Epoxy-Adhesive.php](http://www.lookpolymers.com/polymer_Resinlab-EP1026HP-Epoxy-Adhesive.php)

| Physical Properties | Metric          | English         | Comments                             |
|---------------------|-----------------|-----------------|--------------------------------------|
| Specific Gravity    | 1.13 g/cc       | 1.13 g/cc       | Part B; TM R050-16                   |
|                     | 1.15 g/cc       | 1.15 g/cc       | Mixed; TM R050-16                    |
|                     | 1.16 g/cc       | 1.16 g/cc       | Part A; TM R050-16                   |
| Water Absorption    | 1.47 %          | 1.47 %          | TM R050-35                           |
|                     | @Time 86400 sec | @Time 24.0 hour |                                      |
| Viscosity           | 10000 cP        | 10000 cP        | Part A, RVT, #5, 2.5 rpm; TM R050-12 |
|                     | 12500 cP        | 12500 cP        | Mixed; TM R050-12                    |
|                     | 15000 cP        | 15000 cP        | Part B, RVT, #5, 2.5 rpm; TM R050-12 |

| Mechanical Properties      | Metric     | English      | Comments                                             |
|----------------------------|------------|--------------|------------------------------------------------------|
| Hardness, Shore D          | 85         | 85           | TM R050-17                                           |
| Tensile Strength at Break  | 22.8 MPa   | 3300 psi     | TM R050-36                                           |
| Tensile Strength, Ultimate | 22.8 MPa   | 3300 psi     | TM R050-36                                           |
| Tensile Strength, Yield    | 17.2 MPa   | 2500 psi     | TM R050-36                                           |
| Elongation at Break        | 20 - 30 %  | 20 - 30 %    | TM R050-36                                           |
| Tensile Modulus            | 1.38 GPa   | 200 ksi      | TM R050-36                                           |
| Compressive Yield Strength | 31.0 MPa   | 4500 psi     | TM R050-38                                           |
| Compressive Strength       | >= 193 MPa | >= 28000 psi | Ultimate; TM R050-38                                 |
|                            | >= 193 MPa | >= 28000 psi | Break; TM R050-38                                    |
| Compressive Modulus        | 1.38 GPa   | 200 ksi      | TM R050-38                                           |
| Adhesive Bond Strength     | 24.1 MPa   | 3500 psi     | Lap shear; 2024 T3 Al Abraded / MEK Wipe; TM R050-37 |

| Mechanical Properties | Metric | English | Comments |
|-----------------------|--------|---------|----------|
|-----------------------|--------|---------|----------|

| Thermal Properties               | Metric                                         | English                                          | Comments   |
|----------------------------------|------------------------------------------------|--------------------------------------------------|------------|
| CTE, linear                      | 55.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ | 30.6 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$ |            |
| Thermal Conductivity             | 0.140 W/m-K                                    | 0.972 BTU-in/hr-ft <sup>2</sup> -°F              |            |
| Maximum Service Temperature, Air | 130 °C                                         | 266 °F                                           |            |
| Minimum Service Temperature, Air | -40.0 °C                                       | -40.0 °F                                         |            |
| Glass Transition Temp, Tg        | 30.0 °C                                        | 86.0 °F                                          | TM R050-25 |

| Electrical Properties | Metric                                           | English                                          | Comments |
|-----------------------|--------------------------------------------------|--------------------------------------------------|----------|
| Volume Resistivity    | 8.00e+14 ohm-cm                                  | 8.00e+14 ohm-cm                                  |          |
| Dielectric Constant   | 4.5<br>@Frequency 100 Hz,<br>Temperature 25.0 °C | 4.5<br>@Frequency 100 Hz,<br>Temperature 77.0 °F |          |
| Dielectric Strength   | 17.3 kV/mm                                       | 440 kV/in                                        |          |

| Processing Properties | Metric        | English       | Comments              |
|-----------------------|---------------|---------------|-----------------------|
| Pot Life              | 3.0 - 5.0 min | 3.0 - 5.0 min | Mass: 50g; TM R050-19 |

| Descriptive Properties | Value     | Comments          |
|------------------------|-----------|-------------------|
| Color                  | Off-White |                   |
| Mix Ratio              | 1:1       | Weight and Volume |

## Contact Songhan Plastic Technology Co.,Ltd.

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