

Permabond 940 Cyanoacrylate, low odor

Category : Polymer , Adhesive , Thermoset , Acrylic/Cyanoacrylate Adhesive

Material Notes:

PERMABOND 940 is a low odor, non-fogging non-frosting alkoxyethyl cyanoacrylate. The reduced odor improves worker comfort. Unightly fogging adjacent to bondlines, common with other cyanoacrylate adhesives on hot and humid days, is eliminated. The elimination of fogging improves the production rate of acceptable parts as well as their appearance. The adhesive is very stable and will provide optimum performance for one year when refrigerated. Features & Benefits: Low odor for improved worker comfort Non-frosting –good aesthetic appearance Ease of use – no mixing or heat cure Bonds most materials 100% reactive, no solvents. Information provided by Permabond.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Permabond-940-Cyanoacrylate-low-odor.php

| Physical Properties | Metric | English | Comments |
|---------------------|----------------------|----------------------|----------|
| Specific Gravity | 1.10 g/cc | 1.10 g/cc | Uncured |
| Viscosity | 3.0 - 10 cP | 3.0 - 10 cP | Uncured |
| | @Temperature 25.0 °C | @Temperature 77.0 °F | |
| Storage Temperature | 2.00 - 7.00 °C | 35.6 - 44.6 °F | |

| Mechanical Properties | Metric | English | Comments |
|------------------------|-----------------|-----------------|---|
| Hardness, Shore D | 85 | 85 | ISO 868 |
| Adhesive Bond Strength | 4.00 MPa | 580 psi | Phenolic, Shear; ISO 4587 |
| | 5.00 MPa | 725 psi | PVC, Shear; ISO 4587 |
| | >= 5.00 MPa | >= 725 psi | PC, Substrate Failure, Shear; ISO 4587 |
| | >= 6.00 MPa | >= 870 psi | ABS, Substrate Failure, Shear; ISO 4587 |
| | 8.00 MPa | 1160 psi | Zinc, Shear; ISO 4587 |
| | 8.00 - 9.00 MPa | 1160 - 1310 psi | Aluminum, Shear; ISO 4587 |
| | 16.0 - 20.0 MPa | 2320 - 2900 psi | Steel, Shear; ISO 4587 |
| Impact | 3.0 - 5.0 | 3.0 - 5.0 | kJ/m^2 Adhesive Impact Strength; ASTM D950 |

| Thermal Properties | Metric | English | Comments |
|----------------------|------------------------------------|--------------------------------------|----------|
| CTE, linear | 90.0 $\mu\text{m/m}^\circ\text{C}$ | 50.0 $\mu\text{in/in}^\circ\text{F}$ | |
| Thermal Conductivity | 0.100 W/m-K | 0.694 BTU-in/hr-ft ² -°F | |

| Maximum Service Temperature, Air Thermal Properties | 82.2 °C Metric | 180 °F English | Comments |
|--|-------------------|-------------------|----------|
| Minimum Service Temperature, Air | -62.2 °C | -80.0 °F | |

| Electrical Properties | Metric | English | Comments |
|-----------------------|---------------------------------|---------------------------------|-----------|
| Dielectric Constant | 3.0 @Frequency 1.00e+6 Hz | 3.0 @Frequency 1.00e+6 Hz | |
| Dielectric Strength | 25.0 kV/mm | 635 kV/in | DIN 53481 |

| Processing Properties | Metric | English | Comments |
|-----------------------|---------------------|----------------------------|-------------------------------|
| Cure Time | 0.0333 - 0.0833 min | 0.000556 - 0.00139 hour | Neoprene, handling time |
| | 0.167 - 0.250 min | 0.00278 - 0.00417 hour | Steel, handling time |
| | 0.167 - 0.250 min | 0.00278 - 0.00417 hour | Aluminum, handling time |
| | 0.167 - 0.250 min | 0.00278 - 0.00417 hour | PVC, handling time |
| | 0.167 - 0.250 min | 0.00278 - 0.00417 hour | Phenolic resin, handling time |
| | 0.167 - 0.250 min | 0.00278 - 0.00417 hour | ABS, handling time |
| | 0.500 - 0.667 min | 0.00833 - 0.0111 hour | Zinc, handling time |
| | 1440 min | 24.0 hour | full strength |

| Descriptive Properties | Value | Comments |
|------------------------|--------------|-----------------|
| Appearance | Colorless | Uncured |
| Maximum Gap Fill (mm) | 0.05 | |
| Strength Retention | 10% at 150°C | Relative to 0°C |
| | 100% at 0°C | Relative to 0°C |
| | 30% at 100°C | Relative to 0°C |
| | 55% at -50°C | Relative to 0°C |
| | 90% at 50°C | Relative to 0°C |

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215, Fengxian District, Shanghai City, China