

## Permabond 108 Cyanoacrylate, gap filling

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

### Material Notes:

PERMABOND® 108 is an intermediate viscosity cyanoacrylate that is used to bond through intermediate gaps. It is fast setting and suitable for use on plastics, rubber and metals. Cyanoacrylate adhesives are single component adhesives that polymerize rapidly when pressed into a thin film between parts. The moisture adsorbed on the surface initiates the curing of the adhesive. Strong bonds are developed extremely fast and on a great variety of materials. These properties make PERMABOND cyanoacrylates the ideal adhesives for high speed production lines. Features & Benefits: Fast-setting Some gap fill ability Ideal for automated dispensing Information provided by Permabond.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Permabond-108-Cyanoacrylate-gap-filling.php](http://www.lookpolymers.com/polymer_Permabond-108-Cyanoacrylate-gap-filling.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	Uncured
Viscosity	400 - 600 cP @Temperature 25.0 °C	400 - 600 cP @Temperature 77.0 °F	Uncured
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	20.0 - 22.0 MPa	2900 - 3190 psi	Steel, Shear; ISO 4587
Impact	3.0 - 5.0	3.0 - 5.0	$\text{kJ/m}^2$ Adhesive Impact Strength; ASTM D950

Thermal Properties	Metric	English	Comments
CTE, linear	90.0 $\mu\text{m/m}\cdot^\circ\text{C}$	50.0 $\mu\text{in/in}\cdot^\circ\text{F}$	
Thermal Conductivity	0.100 W/m-K	0.694 BTU-in/hr-ft <sup>2</sup> -°F	
Maximum Service Temperature, Air	82.2 °C	180 °F	
Minimum Service Temperature, Air	-62.2 °C	-80.0 °F	

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.5 @Frequency 10000 Hz	2.5 @Frequency 10000 Hz	
Dielectric Strength	25.0 kV/mm	635 kV/in	

Processing Properties	Metric	English	Comments
Cure Time	0.167 min	0.00278 hour	Steel, handling time
	0.167 min	0.00278 hour	Buna N Rubber, handling time
	0.167 min	0.00278 hour	Phenolic, handling time
	1440 min	24.0 hour	full strength

Descriptive Properties	Value	Comments
Appearance	Colorless	Uncured
Maximum Gap Fill (mm)	0.25	
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.

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