



EPOXY STRUCTURAL ADHESIVE E-107

E-107 is a high performance toughened single component adhesive which provides exceptional shear strength in combination with high peel strength, impact resistance, and good temperature resistance. Especially suitable for bonding magnets and other applications where dissimilar materials are bonded and must withstand long term thermal cycling. If used for multi segment motor rotors, the rotor should have a tight fitting sleeve to help to withstand centrifugal force. For non sleeved multi segment motor rotors use E-110 for best results. E-107 offers higher hot bond strength and long term durability than modified acrylic adhesives. Has good adhesion to plastics as well as metal and ceramics.

PROPERTIES

| | |
|--|--------------------|
| appearance..... | grey viscous paste |
| specific gravity..... | 1.2 |
| viscosity..... | thixotropic |
| shear steel to steel, aluminum oxide blasted, cured 1 hour at 150°C | |
| tested at RT..... | 8,084 psi |
| tested at 100°C..... | 1,213 psi |
| tested at 200°C..... | 560 psi |
| shear strength, neo magnet to steel, both surfaces aluminum oxide blasted, cured 1 hr 150C | |
| tested at RT..... | 5,942 psi |
| maximum continuous use temperature..... | 150°C |
| maximum short time use temperature..... | 200°C |
| bondline thickness..... | 0.0005 in. |

CURE CONDITIONS

Cure for 1hr 150°C

All times are for time at the specified temperature as measured at the bondline. Time must be allowed for the bondline to reach temperature.

STORAGE

Refrigerated storage is desirable. Shelf life is at least 12 months at 0°C, 6 months at room temperature (25°C)

HANDLING

All contact with skin or ingestion should be avoided in accordance with normal handling procedures with epoxy resins. No warranty or guarantee is made regarding this material. The user should determine suitability for a given application. For more information see SDS.

PRICING

2 oz. sample jar \$50.00 ea., 1 pound can \$150.00 ea.

Rev H 6/5/21 Specifications subject to change without notice