

EP LT282 STRUCTURAL EPOXY ADHESIVE

● PRODUCT DESCRIPTION

EP LT282 is a two component, room temperature toughened epoxy adhesive. It is also a very versatile general purpose epoxy adhesive and has excellent adhesion to glass, metals, plastics, composites and ceramics. Specially formulated for low temperature applications.

Adhesive applications and electronic applications such as wire staking, bonding components, strain gauges, fiber optics and potting.

● CURING PROPERTIES

25°C	Full Cure
24 hours	72 hours
Pot Life: Room Temp. (25°C) 150 mins.	

● UNCURED PROPERTIES

	Part A	Part B
Color	Black	Clear
Viscosity(cps)	Thixotropic Gel	12,000
Mix Ratio(by weight)	100	86
Mix Ratio(by volume)	1	1
Specific Gravity	1,14	0,98

● CURED PROPERTIES

Hardness Shore D	75
Tensile Strength (N/mm ²)	20,7
Lap Shear Strength (N/mm ²)	17,3
Temperature Resistance (°C)	-75 - +100
Coefficient of Thermal Expansion	-50°C to 0°C 81x10 ⁻⁶ ln/ln/°C 0°C to 60°C 84x10 ⁻⁶ ln/ln/°C 60°C to 150°C 207x10 ⁻⁶ ln/ln/°C



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● ELECTRICAL PROPERTIES

Volume Resistivity (ASTM D257)	$3,2 \times 10^{15}$
Dielectric Constant (ASTM D150)	5,51
Dielectric Strength (ASTM D149)	630
Dissipation Factor (ASTM D150)	0,034 @1MHZ
Thermal Conductivity (ASTM C177)	1,37 BTU-in./hr,-ft ² -oF

● INSTRUCTIONS FOR USE

The surfaces should be free of dust, oil and other dirt in order to obtain an optimal efficient bond. The components A and B have to be homogenised well, weight out in mixing ration and homogenised with each other for min. 2 minutes.

From now, the pot life time starts and the adhesive has to be applied rapidly. The mixed adhesive should not be applied after the pot life time. It is useful to mix only this quantity of adhesive you can apply during the pot life time.

For curing heat must be applied. In some cases they will cure even at room temperature. But higher temperature will reduce the curing time. For detailed curing information, please look into the technical data sheet.

Shelf life is 12 months stored in original unopened containers. Store in dark place at room temperature.

