

## Epoxyset Epoxibond EB-315 Low Expansion Epoxy Adhesive

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

**Material Notes:**

EB-315 is a highly filled, heat curing, high temperature resistant epoxy adhesive. Due to its low coefficient of thermal expansion and outgassing, it can be used for bonding and sealing in critical instrument applications. Information provided by Epoxyset Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Epoxyset-Epoxibond-EB-315-Low-Expansion-Epoxy-Adhesive.php](http://www.lookpolymers.com/polymer_Epoxyset-Epoxibond-EB-315-Low-Expansion-Epoxy-Adhesive.php)

Physical Properties	Metric	English	Comments
Density	1.80 g/cc	0.0650 lb/in <sup>3</sup>	
Water Absorption	0.20 %	0.20 %	
Viscosity	80000 cP	80000 cP	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	92	92	ASTM D2240
Adhesive Bond Strength	14.5 MPa	2100 psi	Lap Shear Strength

Thermal Properties	Metric	English	Comments
CTE, linear	25.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	13.9 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	
Maximum Service Temperature, Air	210 $^{\circ}\text{C}$	410 $^{\circ}\text{F}$	
Minimum Service Temperature, Air	-55.0 $^{\circ}\text{C}$	-67.0 $^{\circ}\text{F}$	
Glass Transition Temp, Tg	$\geq 120$ $^{\circ}\text{C}$	$\geq 248$ $^{\circ}\text{F}$	

Processing Properties	Metric	English	Comments
Cure Time	30.0 min	0.500 hour	
	@Temperature 150 $^{\circ}\text{C}$	@Temperature 302 $^{\circ}\text{F}$	
Pot Life	60.0 min	1.00 hour	
	@Temperature 100 $^{\circ}\text{C}$	@Temperature 212 $^{\circ}\text{F}$	

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