

## Master Bond EP30-D10 Abrasion Resistant, Flexible Adhesive Compound

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

### Material Notes:

Description: Master Bond Polymer System EP30-D10 is a versatile two component, abrasion resistant elastomer featuring superior strength, toughness and chemical resistance for high performance bonding, sealing, casting and encapsulation. It combines the performance characteristics of epoxy resins such as strength, chemical resistance, and adhesive qualities, with those of the polyurethanes including toughness, abrasion resistance and flexibility. In addition, EP30D10 has been used successfully in a number of different cryogenic applications. Master Bond Polymer System EP30D-10 is formulated to cure at room temperature or more rapidly at elevated temperatures. Master Bond Polymer System EP30D-10 is 100% reactive and does not contain any solvents or diluents. The Master Bond EP30D-10 system cures with minimal shrinkage to a durable, high strength, tough elastomer with good resistance to thermal cycling and chemicals including water, inorganic salts, alkalis and acids. It has an wide service temperature range of 4K to 220°F. Adhesion to metals, concrete, glass, ceramics, wood, vulcanized rubbers and many plastics is excellent. Color of part A is clear, part B is also clear. Master Bond Polymer System EP30D-10 is widely used in cryogenic, optical, electronic and aerospace applications both for original components and maintenance/repair. A non-drip version (amber colored) called EP30D-10ND is also available. Product Advantages: Long working life. Versatile cure schedules; ambient temperature cures or fast cures at elevated temperatures as required. High bonding strength to similar and dissimilar substrates including metals, rubbers, ceramics. High impact strength, fatigue resistance and flexibility. Low water absorption, low moisture permeability. Superior retention of mechanical, chemical properties upon thermal cycling. Excellent electrical insulation properties. Temperature range, 4K to 220°F; cryogenically serviceable. 100% solids formulation; no solvents or diluents; minimal shrinkage upon curing. Excellent optical properties; superior non-yellowing. Information provided by MasterBond®

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Master-Bond-EP30-D10-Abrasion-Resistant-Flexible-Adhesive-Compound.php](http://www.lookpolymers.com/polymer_Master-Bond-EP30-D10-Abrasion-Resistant-Flexible-Adhesive-Compound.php)

Physical Properties	Metric	English	Comments
Viscosity	>= 100000 cP	>= 100000 cP	mixed

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	60	60	
Tensile Strength at Break	>= 10.3 MPa	>= 1500 psi	
Elongation at Break	>= 150 %	>= 150 %	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	104 °C	220 °F	
Minimum Service Temperature, Air	-168 °C	-270 °F	

Processing Properties	Metric	English	Comments
Cure Time	240 - 300 min	4.00 - 5.00 hour	

Processing Properties	@Temperature 93.3 °C Metric	@Temperature 200 °F English	Comments
	4320 - 7200 min	72.0 - 120 hour	
	@Temperature 23.9 °C	@Temperature 75.0 °F	
Pot Life	180 min	180 min	100 gram batch
Shelf Life	12.0 Month	12.0 Month	in unopened container
	@Temperature 23.9 °C	@Temperature 75.0 °F	

Descriptive Properties	Value	Comments
Appearance	transparent	
Mixing Ratio (A to B)	100/05	weight basis

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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