

## Epoxy Technology EPO-TEK® 730 Unfilled Black General and Structural Grade Epoxy

Category : Polymer , Thermoset , Epoxy

### Material Notes:

Material Description: A two component, room temperature curing, general and structural grade epoxy. It can be used for adhesive, sealing, and encapsulating applications in medical, xray device, filtration, opto-electronics, and PCB industries. It is a black version of EPO-TEK® 730 Unfilled. Information Provided by Epoxy Technology

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Epoxy-Technology-EPO-TEK-730-Unfilled-Black-General-and-Structural-Grade-Epoxy.php](http://www.lookpolymers.com/polymer_Epoxy-Technology-EPO-TEK-730-Unfilled-Black-General-and-Structural-Grade-Epoxy.php)

Physical Properties	Metric	English	Comments
Specific Gravity	0.970 g/cc	0.970 g/cc	Part B
	1.17 g/cc	1.17 g/cc	Part A
Viscosity	10000 - 14000 cP	10000 - 14000 cP	20 rpm
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	76	76	
Tensile Modulus	0.896 GPa	130 ksi	Storage
Shear Strength	>= 13.8 MPa	>= 2000 psi	Lap
	>= 23.4 MPa	>= 3400 psi	Die

Thermal Properties	Metric	English	Comments
CTE, linear	61.0 µm/m-°C	33.9 µin/in-°F	Below Tg
	192 µm/m-°C	107 µin/in-°F	Above Tg
Maximum Service Temperature, Air	150 °C	302 °F	Continuous
	250 °C	482 °F	Intermittent
Minimum Service Temperature, Air	-55.0 °C	-67.0 °F	Continuous
	-55.0 °C	-67.0 °F	Intermittent
Glass Transition Temp, Tg	>= 50.0 °C	>= 122 °F	Dynamic Cure 20–200°C /ISO 25 Min; Ramp 10–200°C @ 20°C/Min
Decomposition Temperature	343 °C	649 °F	Degradation Temperature

Optical Properties	Metric	English	Comments
Transmission, Visible	<= 2.0 %	<= 2.0 %	Spectral
	@Wavelength 300 - 960 nm	@Wavelength 300 - 960 nm	
	<= 5.0 %	<= 5.0 %	Spectral
	@Wavelength 980 - 1260 nm	@Wavelength 980 - 1260 nm	

Electrical Properties	Metric	English	Comments
Volume Resistivity	<= 4.00e+13 ohm-cm	<= 4.00e+13 ohm-cm	
Dielectric Constant	3.24	3.24	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dissipation Factor	0.0090	0.0090	
	@Frequency 1000 Hz	@Frequency 1000 Hz	

Processing Properties	Metric	English	Comments
Cure Time	30.0 min	0.500 hour	minimum
	@Temperature 100 °C	@Temperature 212 °F	
	1440 min	24.0 hour	minimum
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Pot Life	60 min	60 min	
Shelf Life	12.0 Month	12.0 Month	
	@Temperature 25.0 °C	@Temperature 77.0 °F	

Descriptive Properties	Value	Comments
Color	Black	Part A
	Clear Yellow	Part B
Consistency	Pourable liquid	
Mix Ratio By Weight	1:1	
Number of Components	Two	
Weight Loss	1.01%	200°C

## **Contact Songhan Plastic Technology Co.,Ltd.**

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