

# EPO-TEK® H20E-SLR-MX

Epoxy; Epoxide

Epoxy Technology Inc.

## Message:

EPO-TEK® H20E-SLR-MX is a two-component, electrically conductive, epoxy for meter mix dispensing applications. It is designed for solar ribbon bonding of photovoltaic modules. It provides the electrical back-contact for ribbon stringing of solar cells into modules and panels.

General Information		
Features	Electrically Conductive	
	Fast Cure	
	Thixotropic	
Uses	Adhesives	
	Electrical/Electronic Applications	
	Solar Panels	
Agency Ratings	EC 1907/2006 (REACH)	
	EU 2003/11/EC	
	EU 2006/122/EC	
RoHS Compliance	RoHS Compliant	
Forms	Paste	
Physical	Nominal Value	Unit
Particle Size	< 20.0	µm
Degradation Temperature	388	°C
Die Shear Strength - > 10 kg (23°C)	23.4	MPa
Operating Temperature		
Continuous	-55 to 200	°C
Intermittent	-55 to 300	°C
Storage Modulus	7.18	GPa
Thixotropic Index	4.10	
Weight Loss on Heating		
200°C	0.61	%
250°C	2.0	%
300°C	3.5	%
Thermal	Nominal Value	Unit
Glass Transition Temperature <sup>1</sup>	78.0	°C
CLTE - Flow		
-- <sup>2</sup>	4.8E-5	cm/cm/°C
-- <sup>3</sup>	2.3E-4	cm/cm/°C

Thermal Conductivity	1.2	W/m/K
Thermoset	Nominal Value	Unit
Thermoset Components		
Part A	Mix Ratio by Weight: 100	
Part B	Mix Ratio by Weight: 15	
Shelf Life (23°C)	52	wk
Uncured Properties	Nominal Value	Unit
Color		
-- 4	Amber	
-- 5	Silver	
Density		
Part B	1.11	g/cm³
Part A	2.28	g/cm³
Viscosity <sup>6</sup> (23°C)	4.3	Pa·s
Curing Time (140°C)	0.17	hr
Pot Life	1200	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore D)	53	
Lap Shear Strength (23°C)	7.17	MPa
Volume Resistivity (23°C)	< 4.0E-3	ohms·cm
NOTE		
1.	Dynamic Cure 20-200°C/ISO 25 Min; Ramp -10-200°C @ 20°C/Min	
2.	Below Tg	
3.	Above Tg	
4.	Part B	
5.	Part A	
6.	50 rpm	

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#### Recommended distributors for this material

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