

# Epoxies, Ect. 20-2521

Polyurethane  
Epoxies, Etc.

Message:

20-2521 is a high performance two component urethane system. This easy to use polyurethane is very low in viscosity and ideal for potting or encapsulating delicate electronic components. 20-2521 exhibits very low shrinkage, stress, and exotherm throughout the cure cycle. This system is also well known for its outstanding thermal shock and excellent dielectric properties.

20-2521 is ideal for potting applications where a wide operating temperature (-55 to +130°C) is required. It is also a good choice when exposure to salt water, mild acids and bases, and aliphatic hydrocarbons is expected.

Features:

- Does not contain MOCA or TDI
- Low stress on components
- Excellent dielectric properties
- Low viscosity
- Easy to handle
- Low shrinkage
- Very good thermal shock and vibration resistance
- Hydrolytic stability

General Information		
Features	Hydrolytically Stable	
	Low Shrinkage	
	Low Viscosity	
	Shock Resistant	
Uses	Electrical/Electronic Applications	
Appearance	Black	
Processing Method	Encapsulating	
	Potting	
Physical	Nominal Value	Unit
Molding Shrinkage - Flow	0.71	%
Thermal	Nominal Value	Unit
CLTE - Flow	1.6E-4	cm/cm/°C
Electrical	Nominal Value	Unit
Surface Resistivity	4.6E+13	ohms
Thermoset	Nominal Value	Unit
Thermoset Mix Viscosity (25°C)	5500	cP
Additional Information	Nominal Value	Unit
Operating Temperature	-55.0 to 130	°C
Thermal Shock <sup>1</sup> (-65 to 130°C)	Pass	
Uncured Properties	Nominal Value	Unit
Color	Black	
Mix Ratio by Weight (PBW)		

Part A	100	
Part B	20	
Mix Ratio by Volume (PBV)		
Part A	100	
Part B	26	
Density		
25°C <sup>2</sup>	1.20	g/cm <sup>3</sup>
25°C <sup>3</sup>	1.60	g/cm <sup>3</sup>
Viscosity		
25°C <sup>4</sup>	0.20	Pa·s
25°C <sup>5</sup>	15	Pa·s
Curing Time		
85°C	0.66	hr
65°C	1.5	hr
45°C	2.5	hr
25°C	24	hr
Pot Life <sup>6</sup> (25°C)	75	min
Cured Properties	Nominal Value	Unit
Water Absorption		
-- <sup>7</sup>	0.19	%
-- <sup>8</sup>	0.55	%
Shore Hardness (Shore D)	65	
Tensile Strength	11.0	MPa
Tensile Elongation at Break	40	%
Electric Strength	25	kV/mm
Relative Permittivity (100 Hz)	4.80	
Volume Resistivity	1.2E+14	ohms·cm
Dissipation Factor (60 Hz)	0.72	
NOTE		
1.	10 cycles	
2.	Part B	
3.	Part A	
4.	Part B	
5.	Part A	
6.	1 lb. mass	
7.	After 24 hours	
8.	After 7 days	

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