

Epoxies, Ect. 10-3003

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Message:

10-3003 is a new high bond strength epoxy adhesive formulated for ease in handling and convenience for the end user. This system has a non-critical mix ratio and adjustable flexibility. 10-3003 is also very safe to use due to the absence of harmful solvents and toxic chemicals in the formulation. 10-3003 yields high peel strength and excellent tensile strength. It also has outstanding thermal shock, impact and vibration resistance. This high performance epoxy adhesive exhibits outstanding physical, thermal, and electrical insulation properties. 10-3004 NC is available as a very low viscosity version of 10-3003. 10-3002 is available as a higher viscosity version of 10-3003.

- Features:
- Non-critical mix ratio
 - Ability to adjust flexibility of bond line
 - Outstanding thermal shock resistance
 - Excellent chemical resistance
 - Very good operating temperature range

General Information		
Features	Bondability	
	Electrically Insulating	
	Good Adhesion	
	Good Chemical Resistance	
	Good Flexibility	
	Good Thermal Shock Resistance	
	High Tensile Strength	
	Medium Viscosity	
	Thermally Insulating	
Uses	Adhesives	
	Electronic Insulation	
	Insulation	
Agency Ratings	MIL I-16923	
Appearance	Clear/Transparent	
Mechanical	Nominal Value	Unit
Flexural Strength	352	MPa
Impact	Nominal Value	Unit
Notched Izod Impact	210	J/m
Thermal	Nominal Value	Unit
CLTE - Flow	5.0E-5	cm/cm/°C
Thermal Conductivity	0.43	W/m/K
Thermoset	Nominal Value	Unit
Thermoset Mix Viscosity (25°C)	15000	cP
Additional Information	Nominal Value	Unit

Operating Temperature	-50.0 to 125	°C
Uncured Properties	Nominal Value	Unit
Color	Clear/Transparent	
Mix Ratio by Weight (PBW)		
Part A	100	
Part B	100	
Density		
25°C ¹	0.958	g/cm ³
25°C ²	1.17	g/cm ³
Viscosity		
25°C ³	6.0	Pa·s
25°C ⁴	12 to 15	Pa·s
Curing Time		
93°C	0.25 to 0.50	hr
66°C	0.50 to 1.0	hr
23°C	24	hr
Pot Life ⁵ (25°C)	90	min
Cured Properties	Nominal Value	Unit
Tensile Strength	72.4	MPa
Electric Strength	22	kV/mm
Relative Permittivity (1 kHz)	3.11	
Volume Resistivity	1.1E+15	ohms·cm
Dissipation Factor	0.020	
NOTE		
1.	Part B	
2.	Part A	
3.	Part B	
4.	Part A	
5.	100 gram mass	

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