

Epoxy Resin for Electrical Components

DENATITE XNR4175 DENATITE XNH4175

Items	XNR4175	XNH4175
Aspect	Black paste	Grayish white liquid
Specific gravity (25°C)	2.28	1.84
Viscosity (25°C)	364 Pa·s	6 Pa·s
Mixing ratio	100 wt%	60 wt%
Viscosity of mixture (25°C)	45000 mPa·s	
(60°C)	5000 mPa·s	
Gelation time (100°C)	22 min	
Cure schedule	100°C/ 1h + 150°C/ 3h	
Flame resistance	Recognized V-0 (13mm) by UL94	
Tg (DSC method)	163 °C	
Coefficient of thermal expansion (<Tg)	14 x 10 ⁻⁶ K ⁻¹	
Thermal conductivity	1.0W/mK	
Flexural strength (25°C)	100 N/mm ²	
Modulus of elasticity in bending (25°C)	16 GPa	
fracture toughness	1.9 MPa · m ^{1/2}	
Volume resistivity (25°C) [500V]	1.5 x 10 ¹⁶ ohm·cm	
Dielectric constant* (25°C)	3.76	
Dielectric dissipation factor * (25°C)	0.005	
Break down voltage	20 kV/mm	

*1KHz

200.211

The information given in this publication is based on the present state of our knowledge but any conclusion and recommendations are made without liability on our part.

Buyers and users should make their own assessment of our products under their own conditions and for their own requirements

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