

Scotchcast™

No. 4 Resin

Data Sheet

Description

Scotchcast™ No 4 resin is an unfilled solvent free two component epoxy resin for room temperature curing.. Scotchcast™ No. 4 resin is one of a system of products available from 3M Electrical Products.

Features

- ❖ Highly resistant to mechanical shocks
- ❖ Good adhesion on metals and different plastics
- ❖ High moisture resistance
- ❖ Ideal for high humidity applications

Process Figures

Mixing Proportion:	A : B	3 : 2
Application Time 100g:	at 23°C	13 min.
	at 35°C	8 min.
Cure Time:	at 23°C	8 hours
	At 60°C	2.5 hours

Property	Value	Specification
Part A		
Determination of Density (Hyd. Method)	1.14 g/cm ³	DIN 51757 / ISO 3675
Part B		
Determination of Density (Hyd. Method)	0.98 g/cm ³	DIN 51757 / ISO 3675
Part A & B		
Density	1.12 g/cm ³	DIN 53479 / ISO 0061
Viscosity 23°C	5.0 Pas	DIN 16945 / ISO 3104
Gel-Time	19 min.	DIN 16945 procedure B
Impact Strength	12.5 KJ/m ²	DIN 53453 / ISO/R-179
Shore-D-Hardness	75 - 82	DIN 53505 / ISO/R-868
Tensile Strength	50 N/mm ²	DIN 53455 / ISO/R527
Elongation at Break	5%	DIN 53455 / ISO/R527
Glass Transition Temperature	70°C	DIN 53445 / ISO/DR 533
Electrolytic Corrosion	A 1.2	VDE 0303 / IEC 426
Dielectric Strength	31 kV/mm	VDE 0303 / IEC 243
Volume Resistivity		VDE 0303 / IEC 93
at 23°C	1.0 E14 Ohm cm	
at 50°C	1.0 E11 Ohm cm	
at 80°C	1.0 E10 Ohm cm	
Dissipation Factor		VDE 0303 / IEC 250
at 23°C 50 Hz	0.01	
at 50°C 50 Hz	0.04	
at 80°C 50 Hz	0.22	
Dielectric Constant		VDE 0303 / IEC 250
at 23°C 50 Hz	3.0	
at 50°C 50 Hz	4.5	
at 80°C 50 Hz	5.5	
Track Resistance (low voltage)	CTI 600	DIN / IEC 112
Water Absorption		DIN 53495
24 h at 23°C	10 mg	
42 days at 50°C	140 mg	

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