

Scotchcast™

No. 2140U Resin (sold only in kits, not separately)

Data Sheet

Description

Scotchcast™ No. 2140U resin is a filled, solvent free, two component polyetherurethane resin for room temperature curing. Scotchcast™ No. 2140U resin is one of a system of products available from 3M Electrical Products.

- ❖ Good adhesion on metals and different plastics
- ❖ Flexible
- ❖ Flame retardant
- ❖ Seawater resistant
- ❖ Resistant against high pressure
- ❖ Short potlife
- ❖ Good low temperature elasticity

Features

Process Figures

Mixing Proportion:	A : B	2 : 1
Application Time:	at 23°C	15 min.
100g	at 35°C	6 min.
Cure Time:	at 23°C	6 hours
	At 60°C	2 hours

Property	Value	Specification
Part A		
Determination of Density (Hyd. Method)	1.25 g/cm ³	DIN 51757 / ISO 3675
Viscosity 23°C	2.7 Pas	DIN 16945 / ISO 3104
Part B		
Determination of Density (Hyd. Method)	1.08 g/cm ³	DIN 51757 / ISO 3675
Viscosity 23°C	1.8 Pas	DIN 16945 / ISO 3104
Part A & B		
Density	1.21 g/cm ³	DIN 53479 / ISO 0061
Viscosity 23°C	2.5 Pas	DIN 16945 / ISO 3104
Gel-Time	23 min.	DIN 16945 procedure B
Shore-A-Hardness	70	DIN 53505 / ISO/R-868
Tensile Strength	7 N/mm ²	DIN 53455 / ISO/R527
Glass Transition Temperature	-60°C	DIN 53445 / ISO/DR 533
Electrolytic Corrosion	A 1.0	VDE 0303 / IEC 426
Dielectric Strength	20 kV/mm	VDE 0303 / IEC 243
Volume Resistivity		VDE 0303 / IEC 93
at 23°C	1.2 E14 Ohm cm	
at 50°C	4.4 E12 Ohm cm	
at 80°C	3.3 E11 Ohm cm	
Dissipation Factor		VDE 0303 / IEC 250
at 23°C 50 Hz	0.04	
at 50°C 50 Hz	0.05	
at 80°C 50 Hz	0.20	
Dielectric Constant		VDE 0303 / IEC 250
at 23°C 50 Hz	4.0	
at 50°C 50 Hz	4.2	
at 80°C 50 Hz	5.0	
Track Resistance (low voltage)	CTI 600	DIN / IEC 112

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