

Scotchcast™

No. 1400U Resin Hydrocarbon Resistant

Data Sheet



Product Description

Scotchcast™ No. 1400U Resin is a filled solvent free two component Polyetherurethane resin for room temperature curing. Scotchcast™ No. 1400U Resin is one of a system of products available from 3M Electrical Products Division.

Features

- ❖ Flame retardant.
- ❖ Excellent resistance against fuels and most mineral oils.
- ❖ Short cure time.
- ❖ Low water absorption.

Process Figures

Mixing Proportion:	A : B	4 : 3
Application Time:	At 23°C	16 minutes.
	At 35°C	12 minutes.
Cure Time:	At 23°C	8 hours.
	At 60°C	2.5 hours.

Property

Property	Value	Specification
Part A		
Determination of Density (Hyd. Method)	1.25g/cm ³	DIN 51757 / ISO 3675
Viscosity 23°C	3.5 Pas	DIN 16945 / ISO 3104
Part B		
Determination of Density (Hyd. Method)	1.23g/cm ³	DIN 51757 / ISO 3675
Viscosity 23°C	0.9 Pas	DIN 16945 / ISO 3104
Part A & B No. 1400U		
Density	1.24 g/cm ³	DIN 53479 / ISO 0061
Viscosity 23°C	2.0 Pas	DIN 16945 / ISO 3104
Gel-Time	20 minutes.	DIN 16945 procedure B
Impact Strength	22KJ/m ²	DIN 53453 / ISO/R-179
Shore-D-Hardness	76 – 82	DIN 53505 / ISO/R-868
Tensile Strength	50 N/mm ²	DIN 53455 / ISO/R527
Elongation at Break	10%	DIN 53455 / ISO/R527
Glass Transition Temperature	65°C	DIN 53445 / ISO DR 533
Electrolytic Corrosion	A 1.2	VDE 0303 / IEC 426
Dielectric Strength	22 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	
At 23°C after 24h H ₂ O	1.0 E12 Ohm cm	
Dissipation Factor		VDE 0303 / IEC 250
At 23°C 50 Hz	0.04	
At 50°C 50 Hz	0.1	
At 80°C 50 Hz	0.25	
Dielectric Constant		VDE 0303 / IEC 250
At 23°C 50 Hz	3.3	
At 50°C 50 Hz	3.8	
At 80°C 50 Hz	5.7	
Track Resistant (low voltage)	> CTI 600	DIN / IEC 112
Water Absorption		DIN 53495
24h at 23°C	8mg	
42d at 50°C	64mg	



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