



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.
100g	At 35°C	12 minutes.
Cure Time:	At 23°C	8 hours.
	At 60°C	2.5 hours.

Property

Part A

Value	Specification
Determination of Density (Hyd. Method)	DIN 51757 / ISO 3675
Viscosity 23°C	DIN 16945 / ISO 3104

Part B

Determination of Density (Hyd. Method)	DIN 51757 / ISO 3675
Viscosity 23°C	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	





WWW.CABLEJOINTS.CO.UK
THORNE & DERRICK UK
TEL 0044 191 490 1547 FAX 0044 477 5371
TEL 0044 117 977 4647 FAX 0044 977 5582
WWW.THORNEANDDERRICK.CO.UK

Page 2 of 2

Scotchcast™

No. 1400U Resin Hydrocarbon Resistant

Data Sheet

Important Notice

Technical information provided by 3M is based on experience and/or tests believed to be reliable, but their accuracy is not guaranteed and the results may not be relevant to every user's application. For this reason 3M does not accept responsibility or liability, direct or consequential, arising from reliance upon any information provided and the user should determine the suitability of the products for their intended use. Nothing in this statement will be deemed to exclude or restrict 3M's liability for death or personal injury arising from its negligence. All questions of liability relating to 3M products are governed by the seller's terms of sale subject where applicable to the prevailing law. If any goods supplied or processed by or on behalf of 3M prove on inspection to be defective in material or workmanship, 3M will (at its option) replace the same or refund to the Buyer the price paid for the goods or services. Except as set out above, all warranties and conditions, whether express or implied, statutory or otherwise are excluded to the fullest extent permissible at law.

3M and Scotchcast are trademarks of the 3M Company. Printed in the UK.

© 3M United Kingdom PLC, 2001.



WWW.CABLEJOINTS.CO.UK
THORNE & DERRICK UK
TEL 0044 191 490 1547 FAX 0044 477 5371
TEL 0044 117 977 4647 FAX 0044 977 5582
WWW.THORNEANDDERRICK.CO.UK