

3M

Scotchcast™

No. 1471 Resin

Data Sheet



Product Description

Scotchcast™ No. 1471 Resin is an unfilled solvent free two component polyetherurethane resin for room temperature curing.

Features

- ❖ Good adhesion on metals and different plastics
- ❖ Short cure time
- ❖ Available with Closed Mix and Pour Delivery System

Process Figures

Mixing Proportion:	A : B	4 : 3
Application Time:	At 23°C	10 minutes.
100g	At 35°C	6 minutes.
Cure Time:	At 23°C	10 hours.
	At 60°C	3 hours.

Property	Value	Specification
Part A		
Determination of Density (Hyd. Method)	1.05g/cm ³	DIN 51757 / ISO 3675
Viscosity 25°C	1.0 Pas	DIN 16945 / ISO 3104
Part B		
Determination of Density (Hyd. Method)	1.15g/cm ³	DIN 51757 / ISO 3675
Viscosity 25°C	2.0 Pas	DIN 16945 / ISO 3104
Part A & B No. 1471		
Density	1.10 g/cm ³	DIN 53479 / ISO 0061
Viscosity 23°C	1.8 Pas	DIN 16945 / ISO 3104
Gel-Time	45-55 minutes.	DIN 16945 procedure B
Terminal Conductivity	0.24 W/K m	DIN 516946
Shore-D-Hardness	40-50	DIN 53505 / ISO/R-868
Tensile Strength	9 N/mm ²	DIN 53455 / ISO/R527
Elongation at Break	110%	DIN 53455 / ISO/R527
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 E13 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 E11 Ohm cm	
Dissipation Factor		VDE 0303 / IEC 250
At 23°C 50 Hz	0.06	
At 50°C 50 Hz	0.10	
At 80°C 50 Hz	0.25	
Dielectric Constant		VDE 0303 / IEC 250
At 23°C 50 Hz	5.2	
At 50°C 50 Hz	8.2	
At 80°C 50 Hz	8.5	
Track Resistant (low voltage)	CTI 600	DIN / IEC 112

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