

18027 Bishop Avenue
 Carson, CA 90746-4019
 Phone: (800) 374-3872
 Fax: (310) 202-7247
www.evroberts.com



TECHNICAL DATA SHEET
RF 1735 A/B
POLYURETHANE POTTING RESIN

Description

RF 1735 is an easy-to-use, two-part, medium-soft (Shore 60A), high temperature, urethane potting compound. RF 1735 does not contain TDI or MOCA. RF 1735 is also available in a blue version as RF 1735 Blue Mod-1, all other properties are identical.

RF 1735 has excellent hydrolytic stability. Thirty days at 100°C and 95% relative humidity has little effect on the properties. Thermal stability is exceptional, with intermittent temperatures as high as 150°C causing little or no degradation. The material remains thermally stable to temperatures well below -60°F (50°C) with a brittle point less than -60°C. Excursions well below the brittle point have no effect on the physical properties of the polymer.

Handling Properties, Typical

Property	RF 1735 A/B
Mix Ratio: by Weight	37:63
by Volume	1:2
Mixed Color	Clear, Amber or Blue
Mixed Viscosity @ 77°F (25°C), cps	1700-2000
Pot Life, 100 grams @ 77°F (25°C)	90 min
Cure Schedule	24 hr @ 25°C*

* The cure may be accelerated by heating.

Physical Properties, Typical Cured Performance

** Property	Test Method	Unit	Value
Hardness	Shore	A	60
Cured Density		gm/cm ³	1.06
CTE		in/in/°C	20-21E-5
Tensile Strength		psi	410
Tensile Elongation		%	160
Moisture Absorption	10d/90°C/100% RH	%	1.0
Water Vapor Permeability		gm/hr/cm	1.1E-6
Volume Resistivity		Ohm-cm	1.0E15
VR after 7day, 230°F steam		Ohm-cm	1.5E9
Insulation Resistance		Ohm	>1E14
Dielectric Constant, 1 KHz			4.3
Dielectric Strength		Volts/mil	490
Dissipation Factor, 1 KHz			0.10

**** Cure:** 24 hours @ 77°F plus 2 hours @ 165°F

SAFETY INFORMATION: See Materials Safety Data Sheet for RF 1735 A & B for proper storage and handling.

Notice to Buyer: Exclusion of Warranties and Limitation of Liability

This data sheet does not constitute a specification. All information supplied by Resin Formulators and E.V. Roberts is considered accurate, but is furnished upon the express condition that the person receiving it shall make their own tests to determine its suitability for their particular purpose. No warranty is expressed or implied regarding such information, the data upon which the same is based, or the results to be obtained from the use of such information or product will not infringe any patent.

Revised: D. Soden 04-18-2016