

RE2039™/HD0183™

May 2009

PRODUCT DESCRIPTION

RE2039[™]/HD0183[™] provides the following product characteristics:

Technology	Ероху		
Appearance (Part A)	Amber		
Appearance (Part B)	Amber		
Appearance (cured)	Amber		
Components	Two component - requires mixing		
Product Benefits	Excellent electrical properties		
	 Good physical strength 		
	Low viscosity		
	 Easily pourable at room 		
	temperature		
	 High heat distortion 		
	 Low shrinkage 		
	Low expansion		
Mix Ratio, by volume -	100 : 59		
Part A: Part B			
Mix Ratio, by weight -	100 : 60		
Part A: Part B			
Cure	Heat cure		
Application	Potting and Encapsulating		

RE2039[™]/HD0183[™] is recommended for casting coils, transformers, and for general purpose casting.

TYPICAL PROPERTIES OF UNCURED MATERIAL Part A Properties

Viscosity, Brookfield - RVF, 25 °C, cps:	
Spindle 5, speed 10 rpm	10,000 to 16,000
Specific Gravity @ 25 °C	1.16
Shelf Life @ 25°C, months	12
Flash Point - See MSDS	

Part B Properties

Viscosity, Brookfield - RVF, 25 °C, cps:	
Spindle 2, speed 20 rpm	≥200
Specific Gravity @ 25 °C	1.22
Shelf Life @ 25°C, hours	12
Flash Point - See MSDS	

Mixed Properties

Viscosity @ 25 °C, cps	1,500
Pot Life, 200 gm mass, @ 25 °C, hours	8
Flash Point - See MSDS	

TYPICAL CURING PERFORMANCE

Recommended Cure Schedule

2 hours @ 110°C

Alternative Cure Schedule

1 hour @ 125°C

The above cure profiles are guideline recommendations. Cure conditions (time and temperature) may vary based on customers' experience and their application requirements, as well as customer curing equipment, oven loading and actual oven temperatures.

TYPICAL PROPERTIES OF CURED MATERIAL

Physical Properties:

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Coefficient of Linear Thermal Expansion, in/	in/ºC x 10	-6
@ 30 to 90°C		93
Thermal Conductivity, cal/cm sec °C x 10 ⁻⁴		6.3
Shore Hardness, , Durometer D		87
Elongation ,%		6.0
Flexural strength	N/mm ²	150
	(psi)	(21,700)
Compressive Strength	N/mm ²	
	(psi)	· · · /
Tensile Strength	N/mm ²	
	(psi)	(11,000)
Linear Shrinkage, %		0.53
24 Hour Water Moisture Absorption, %		0.13
Specific Gravity @ °C		1.2
Electrical Properties:		
Dielectric Strength, 10 mils thickness, volts/mil		900
Arc Resistance, seconds		113
Dielectric Constant / Dissipation Factor, IEC	60250:	
1kHz @ 25°C		3.0 / 0.005
1kHz @ 130°C		3.2 / 0.007
Volume Resistivity, IEC 60093, Ω·cm:		
@ 25 °C		3×10 ¹⁶
@ 130 °C		8×10 ¹⁴

GENERAL INFORMATION

For safe handling information on this product, consult the Material Safety Data Sheet, (MSDS).

Directions for use

Not for product specifications

The technical data contained herein are intended as reference only. Please contact your local quality department for assistance and recommendations on specifications for this product.



Storage

Store product in the unopened container in a dry location. Storage information may be indicated on the product container labeling.

Liquid Storage - Liquids should be stored at 23°C or below, in closed containers. If stored below 23°C, the material MUST be allowed to come to room temperature, in the sealed container, to avoid moisture contamination.

Material removed from containers may be contaminated during use. Do not return product to the original container. Henkel Corporation cannot assume responsibility for product which has been contaminated or stored under conditions other than those previously indicated. If additional information is required, please contact your local Technical Service Center or Customer Service Representative.

Conversions

 $(^{\circ}C \ge 1.8) + 32 = ^{\circ}F$ kV/mm $\ge 25.4 = V/mil$ mm / 25.4 = inches N $\ge 0.225 = lb$ N/mm $\ge 5.71 = lb/in$ N/mm² $\ge 145 = psi$ MPa $\ge 145 = psi$ N·m $\ge 8.851 = lb/in$ N·m $\ge 0.738 = lb/ft$ N·mm $\ge 0.738 = lb/ft$ N·mm $\ge 0.142 = oz/in$ mPa/s $\le cP$

Note

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Reference 0.0