



EE1068/OB4210

July 2010

PRODUCT DESCRIPTION

EE1068/OB4210 provides the following product characteristics:

Technology	Epoxy
Appearance (Part A)	Black
Appearance (Part B)	Clear, Yellow
Appearance (cured)	Black
Product Benefits	• Flame retardant
Components	Three components - requires mixing
Mix Ratio, by weight -	100 : 44
Cure	Heat cure
Application	General purpose
Typical Applications	Casting compound

EE1068/OB4210 passes NASA outgassing standards.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Part A Properties

Filler Content, %	38 to 42
Shelf Life @ 25°C, months	6

Specific Gravity, @ 25°C, gm/cc	1.67 to 1.71
Viscosity, Brookfield - RVF, mPa·s (cP):	
Spindle 6, speed 20	30,000 to 35,000

Part B Properties

Shelf Life @ 25°C, months	12
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Specific Gravity, @ 25°C, gm/cc	1.15 to 1.18
Viscosity, Brookfield - RVF, mPa·s (cP):	
Spindle 1, speed 20	50 to 150

Mixed Properties

Gel Time @ 100°C, minutes	13.4
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TYPICAL PROPERTIES OF CURED MATERIAL

Physical Properties:

Coefficient of Thermal Expansion, ppm/°C:	
Below Tg (30 to 90°C)	56
Glass Transition Temperature, ASTM D3386, °C	117.5
Linear Shrinkage, %	1.01
Shore Hardness, Shore D	97.5
Flexural strength	N/mm ² 86.64 (psi) (12,563)

Water Absorption, ISO 62, %:	
@ 100°C, 2 hours	0.31
@ 100°C, 4 hours	0.66
@ 100°C, 6 hours	0.73
@ R.T., 1 week	0.19

Electrical Properties:

Dielectric Constant / Dissipation Factor, IEC 60250:

@ 25 °C:	
1 kHz	3.74 / 0.0112
10 kHz	3.67 / 0.0129
100 kHz	3.62 / 0.0299

Volume Resistivity, IEC 60093, Ω·cm 2.13×10¹⁴

Surface Resistivity, IEC 60093, Ω 7.42×10¹³

GENERAL INFORMATION

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

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.

Note: Before using this product please purge approximately 30 ml. of material prior to application. Discard purged material in accordance with the Material Safety Data Sheet. A video instruction is available upon request.

Storage

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

Optimal Storage: 25 °C

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

(°C x 1.8) + 32 = °F

kV/mm x 25.4 = V/mil

mm / 25.4 = inches

N x 0.225 = lb

N/mm x 5.71 = lb/in

N/mm² x 145 = psi

MPa x 145 = psi

N·m x 8.851 = lb·in

N·m x 0.738 = lb·ft

N·mm x 0.142 = oz·in

mPa·s = cP

Note

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