



HYSOL®EO1074

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PRODUCT DESCRIPTION

Hysol® EO1074 is a one component high performance epoxy encapsulant with high Tg and low extractable ionics. It features good shelf life stability and fast curing capability at moderate temperatures. This system is intended for applications requiring excellent handling properties. EO1074 has a unique rheology that allows the same product to be used as both a dam and a fill encapsulant. When the material is dispensed onto a heated substrate (85-100°C), it will perform as a flow control dam. When dispensed onto lower temperature (45-60°C) substrate, the material flows and works as a fill encapsulant.

TYPICAL APPLICATIONS

One component casting compound

PROPERTIES OF UNCURED MATERIAL

Color	Black
Filler Content, % (ITM3A)	48
Specific Gravity, (ITM9A)	1.65
Shelf Life @ 5°C, (40°F), months	6
Typical Value	
Viscosity (ITM2A)	
Brookfield RVF, @ 25°C, (77°F)	
Spindle 7, Speed 20, Cp	60,000

PHYSICAL PROPERTIES, CURED MATERIAL

Color	Black
Glass Transition (Tg), °C, TMA, (ITM65B)	150
(Cure for TMA analysis was 30 minutes @ 140°C)	
Coefficient of Linear Thermal Expansion, (ITM65B),	
α_1 (mm/m°C)	43
α_2 (mm/m°C)	110
Specific Gravity	1.78
Linear Shrinkage, % 10 grams	0.84
Hardness, shore D, minimum	90
Moisture Absorption %, PCT @ 15 psi, 96 hours immersion @ 121°C, 100% RH	3.0

Handling

Gel Time @ 121°C, (250°F), minutes	5
@ 140°C, (284°F), minutes	3
(ITM10N)	
Pot Life, @ 25°C, (77°F), days,	30
(ITM 10T)	

Storage at approximately (5°C), 40°F, or lower for maximum shelf life. Allow material to reach room temperature before use.

GENERAL INFORMATION

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

This product is not recommended for use in pure oxygen and/or oxygen rich systems and should not be selected as a sealant for chlorine or their strong oxidizing materials

Cure Schedule

Recommended Cure 5 minutes @ 140°C/150°C

Use suggested cure conditions as general guidelines. Other cure conditions may yield satisfactory results. With all fast cure systems, the minimum required time for cure depends on the rate of heating. Conditions where a hot place, heat sink or oven is used are optimum for fastest curing. Cure rates depend on the mass of material to be heated and intimate contact with the heat source.

Note

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