

TECHNICAL DATA

PR-1590 Potting And Molding Compound

Description

PR-1590 is a medium hardness potting and molding compound. It has a service temperature range from -80°F (-62°C) to 300°F (149°C). This material is designed for applications where high retention of electrical properties after exposure to high humidity and temperature is required.

PR-1590 is a two-part, diamine curing system based curing polyurethane compound. The product requires elevated temperature for cure to obtain optimal performance properties.

The following tests are in accordance with PRC-DeSoto International and MIL-S-8516 specification test methods.

Application Properties (Typical)

<u> </u>		
Color		
Part A		Dark amber or Black
Part B		Straw
Mixed		Dark amber or Black
Mixing ratio		Part A:Part B
By weight		47:100
Viscosity (Brookfield #3 @ 1 Poise (Pa-s)	10 rpm),	120 (12)
two-part unit premixed and frozen (PMF)		400 (40)
·		400 (40)
Application life to 2		
(250 Pa-s) @ 75°F	(24°C), hours	2
two-part unit		3
premixed and frozen (PMF)		2
	Mold release time (hours)	Cure time to 55 A Durometer (hours)
75°F (24°C)		168
180°F (82°C)	3	6

Performance Properties (Typical)

1.08
99
75
4
2200 (15170)
500
175
Non-nutrient
No ignition
Conforms
40 (178) 25 (111)
28 (125)
, ,
1 Adhesion pro-
and primed
7.4 4.8
0.08 0.08
1 X 1012 1 X 109
1 X 1013 9 X 1010
500,000 100
300
-15

2.8

Moisture absorption, %

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Note: The application and performance property values above are typical for the material, but not intended for use in specifications or for acceptance inspection criteria because of variations in testing methods, conditions and configurations.

Surface Preparation

Prepare surfaces according to the PR-1500 Series Potting/Molding Application Guide.

Packing Options

PR-1590 is supplied as a two-part unit or premixed and frozen Semco® cartridges.

Mixing Instructions

Mix according to the PR-1500 Series Potting/Molding Application Guide.

Storage Life

The storage life of PR-1590 in a two-part unit is at least 12 months when stored at temperatures below 80°F (27°C) in original, unopened containers. The storage life of PR-1590 in premixed and frozen Semco® cartridges is at least 30 days when stored at temperatures below -40°F (-40°C) in original, unopened containers.

Health Precautions

This product is safe to use and apply when recommended precautions are followed. Before using this product, read and understand the Material Safety Data Sheet (MSDS), which provides information on health, physical and environmental hazards, handling precautions and first aid recommendations. An MSDS is available on request. Avoid overexposure. Obtain medical care in case of extreme overexposure.

For industrial use only. Keep away from children. Additional information can be found at: www.bergdahl.com

For sales and ordering information call 775-323-7542

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