

TECHNICAL DATA PR-1570 Potting And Molding Compound

Description

PR-1570 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-1570 is a two-part, polylol 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)

Color					
Part A			-	ht straw Black	
Part B			Stra		
Mixed			Amber or Black		
Mixing ratio By weight			Part A:Part B 25:100		
Viscosity (Brookfield # Poise (Pa-s)		ו),	1.40	2 (1 4)	
two-part unit premixed and frozen (PMF)) (14)) (40)	
Application life to 2500 poise (250 Pa-s) @ 75°F (24°C), mins					
two-part unit					
premixed and frozen (PMF)			30		
180°F (82°C)	Tack free time (hours)	Mold rele time (hours) 4	ase	Cure time to 70 A Durometer (hours) 8	
	-	-		0	

Performance Properties (Typical)

(-) [
Cured 16 hours @ 180°F (82°C)	
Cured specific gravity	0.98
Nonvolatile content, %	99
Ultimate cure hardness,	
Durometer A	75
Volume shrinkage, %	4
Tensile strength, psi (KPa)	1000 (6900)
Ultimate elongation, %	350
Tear strength (Die C), lbs./in.	100
Compression set (ASTM D 395, Method B), %	28
Fungus resistance (MIL-E-5272)	Non-nutrient
Flame resistance overload	No ignition
Peel strength, pli (N/25 mm)	
Aluminum alloy*	50 (222)
Stainless steel*	50 (222)
Neoprene** Polyvinyl chloride***	20 (89) 20 (89)
*Primed with PR-420 Primer	20 (05)
**Buffed and primed with PR-1523-M moter	Adhesion pro-
***Tackified with methyl ethyl ketone with PR-1543 Adhesion promoter	and primed
Dielectric constant	
1 KHz @ 75°F (24°C)	3.2
1 MHz @ 75°F (24°C)	2.7
Power factor 1 KHz @ 75°F (24°C)	0.02
1 MHz @ 75°F (24°C)	0.02
Volume resistivity, ohm-cm	
@ 75°F (24°C)	1 X 1015
@ 250°F (121°C)	1 X 1012
Surface resistivity, ohms @ 75°F (24°C)	1 X 1016
Insulation resistance, megohms @ 75°F (24°C)	1 X 108
Dielectric strength, volts/mil 125 mils	335
Water vapor permeability (ASTM E 96, Procedure B @ 75°F (24°	
g-cm/((cm2) (hr) (mm of Hg))	9 X 10-8

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Sound velocity in sea water @ 67°F (19°C), 200 KHz frequency meters/second

Humidity resistance

Humidity resistai	nce	
	150°F(66°C)	200°F (93°C)
	@ 95% RH	@ 95% RH
	(Durometer A)	(Durometer A)
initial	74	74
30 days	75	75
60 days	75	75
120 days	70	50

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-1570 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-1570 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-1570 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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