

TECHNICAL DATA

PR-1535 Potting And Molding Compound

Description

PR-1535 is a high 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 abrasion resistance, high tensile strength and excellent electrical properties are required. The cured compound is resistant to contact with water and oils.

PR-1535 is a two-part, chemically curing polyurethane compound. It cures at room temperature to a tough, semiflexible, cold flow-resistant rubber.

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

Application Properties (Typical)

Color			
Part A	Amber or Black		
Part B	Straw		
Mixed	Amber or Black		
Mixing ratio		Part A:Part B	
By weight		32:100	
Base viscosity			
(Brookfield #5 @ 10 rpm),			
Poise (Pa-s)			
two-part unit	240 (24)		
premixed and frozen (PMF)	750 (75)		
Application life to 2500 poise			
(250 Pa-s) @ 75°F (24°C), hours			
two-part unit	2		
premixed and frozen (PMF)	1		
	Tack free	Mold release	Cure time
	time	time	to 90 A
	(hours)	(hours)	Durometer
			(hours)
75°F (24°C)	18	24	168
180°F (82°C)	1	2.5	6

Performance Properties (Typical)

Cured 16 hours @ 180°F (82°C)	
Cured specific gravity	1.07
Nonvolatile content, %	99
Ultimate cure hardness,	
Durometer A	90
Volume shrinkage, %	2

Tensile strength, psi (KPa)	4500 (31030)
Ultimate elongation, %	500
Tear strength (Die C), lbs./in.	375
Compression set	
(ASTM D 395, Method B), %	32
Fungus resistance (MIL-E-5272)	Non-nutrient
Peel strength, pli (N/25 mm)	
Aluminum alloy*	40 (178)
Cadmium plate*	50 (222)
Neoprene**	20 (89)
Polyvinyl chloride***	40 (178)

*Primed with PR-420 primer

**Buffed and primed with PR-1523-M adhesion promoter

***Tackified with methyl ethyl ketone and primed with PR-1543 Adhesion promoter

Dielectric constant	
1 KHz @ 75°F (24°C)	6.4
10 KHz @ 75°F (24°C)	6.1
1 MHz @ 75°F (24°C)	4.8
Power factor	
1 KHz @ 75°F (24°C)	0.03
10 KHz @ 75°F (24°C)	0.04
1 MHz @ 75°F (24°C)	0.08
Volume resistivity, ohm-cm	
@ 75°F (24°C)	3 X 10 ¹²
@ 180°F (82°C)	2.4 X 10 ⁹
Surface resistivity, ohms	
@ 75°F (24°C)	4 X 10 ¹²
Insulation resistance, megohms	
@ 75°F (24°C)	500,000
@ 150°F (66°C)	100,000
@ 250°F (121°C)	7,000
Dielectric strength, volts/mil	
125 mils	315
25 mils	670

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.

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Surface Preparation

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

Packaging Options

PR-1535 is supplied as a two-part unit or premixed and frozen in Semco® cartridges.

Mixing Instructions

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

Storage Life

The storage life of PR-1535 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-1535 in premixed and frozen Semco® cartridges is at least 21 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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Authorized Distributor:
Bergdahl Associates, Inc.
2990 Sutro Street
Reno, Nevada 89512-1616
775-323-7542
www.bergdahl.com

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