

PC-3175 Rigid Tan Urethane

Ideal Adhesive/Molding Compound for Oil Filters

PC-3175 is a two component, room temperature cured, rigid urethane adhesive/molding compound designed for oil filters. The combination of medium viscosity and quick gelling characteristics of the material yields fast turnover time for filter manufacturing.

Key Features

- Medium Mixed Viscosity with Ample Working Time.
- Fast Gel Time combined with a Low-Stress Cure.
- Very Good Hydrolytic Stability.
- Excellent Thermal Stability at Elevated Temperatures up to 325°F (163°C) in air & 250°F (121°C) in various oils.
- Broad Chemical Resistance with Excellent Resistance to Oil, Chlorine, and other harsh chemicals.

Typical Uncured Properties

Color	
PC-3175 Resin (Polyol Component)	Off-White
PC-3175 Hardener (Isocyanate Component)	Brown
PC-3175 Mixed	Tan
Viscosity (Brookfield) @ 25°C ± 1°C (77°F ± 2°F); cPs	
PC-3175 Resin	13,000
PC-3175 Hardener	200
PC-3175 Mixed	5,500
Density @ 25°C ± 1°C (77°F ± 2°F); Lbs./Gal. (g/cm ³)	
PC-3175 Resin	13.50 (1.62)
PC-3175 Hardener	10.30 (1.23)
PC-3175 Mixed	12.70 (1.52)

Mixing Specifications

Mix Ratio	
Parts by Weight	100 parts Resin : 25.4 parts Hardener
Parts by Volume	3.0 parts Resin : 1.0 part Hardener

Typical Properties Upon Mixing

Processing Times @ 25°C ± 1°C (77°F ± 2°F); min:sec	
Gel Time (125.4 gram mass; 250 mL beaker)	3:30
Full Cure Cycle	7 days

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Typical Cured Properties

Color	Tan
Hardness upon full cure; Shore D	85–90

Processing Instructions

For good results, automatic mixing and dispensing equipment should be used. Please consult with Polyset technical staff before making final processing decisions.

Storage Information

Keep away from flames. Material should be used once container is opened. Long term storage of opened material should be under nitrogen. Shelf life of both PC-3175 Resin and PC-3175 Hardener is 6 months @ 25°C (77°F) in unopened containers.

Safety Information

Avoid direct contact. Use safety goggles or safety glasses with side shields and impervious gloves when handling PC-3175 Resin and PC-3175 Hardener. If skin contact occurs, wash with soap and water. If PC-3175 Resin or PC-3175 Hardener enters the eyes, flush with cool water for at least 15 minutes and call a physician immediately. Refer to product Safety Data Sheets for further information.