

PC-3236 Filter Casting System

Black Urethane Elastomer; Shore A 70 Hardness

Technical Bulletin

Rev. Date: 8/05/2016

PC-3236 is a two component, unfilled, medium durometer casting system that produces a flexible elastomer possessing excellent toughness, high elongation, high tensile and high tear strength. The system offers a combination of low viscosity and rapid gelation at room temperature for high productivity. Recommended use would be end caps for the air filtration market.

Typical Uncured Properties

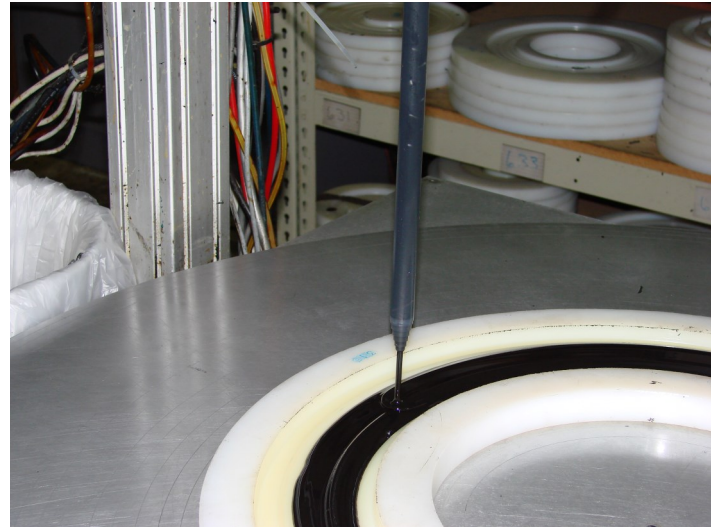
Color		
PC-3236 Resin (Polyol)		Black
PC-3236 Hardener (Isocyanate)	Clear to Clear Straw	
PC-3236 Mixed		Black
Viscosity (Brookfield) @ 25°C ± 1°C (77°F ± 2°F); cPs		
PC-3236 Resin; Spindle #2 @ 10 rpm		1,680
PC-3236 Hardener; Spindle #2 @ 20 rpm		900
PC-3236 Initial Mixed; Spindle #2 @ 20 rpm		1,100
Density @ 25°C ± 1°C (77°F ± 2°F); Lbs./Gal. (g/cm ³)		
PC-3236 Resin (Polyol)		8.64 (1.03)
PC-3236 Hardener (Isocyanate)		9.70 (1.16)
PC-3236 Mixed		8.97 (1.08)

Mixing Specifications & Characteristics

Mix Ratio		
Parts by Weight	100 parts Resin : 46 parts Hardener	
Parts by Volume	2.5 parts Resin : 1.0 part Hardener	
Gel Time @ 25°C ± 1°C (77°F ± 2°F); min:sec		
25 gram Mass		0:25–0:35
Turn-Over Time @ 49°-60°C (120°-140°F)		< 2:00
Full Cure Cycle		7 days

Typical Cured Properties

Color	Black
Hardness; Shore A	70–73
Tensile Strength; psi	1535
Elongation; %	444
Tear Strength (Die C); Lbs./in.	218



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-3236 Resin and PC-3236 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-3236 Resin and PC-3236 Hardener. If skin contact occurs, wash with soap and water. If PC-3236 Resin or PC-3236 Hardener enters the eyes, flush with cool water for at least 15 minutes and call a physician immediately. Refer to PC-3236 Resin and PC-3236 Hardener Safety Data Sheets for further information.

Limited Warranty: Polyset Company Inc. makes no warranty, expressed or implied, including any warranty of merchantability or fitness for a particular purpose. The sole remedy of Purchaser for any claim concerning this product, including, but not limited to, claims alleging breach of warranty, negligence, strict liability or otherwise, is the replacement of product or refund of the purchase price, at the discretion of Polyset Company Inc. Any claims concerning this product shall be submitted in writing within one year of the delivery date of this product to Purchaser and any claims not presented within that period are waived by Purchaser. IN NO EVENT SHALL POLYSET COMPANY INC. BE LIABLE FOR ANY SPECIAL, INCIDENTAL, CONSEQUENTIAL (INCLUDES LOSS OF PROFITS) OR PUNITIVE DAMAGES.