



Product Description

PRE-POL® PC 60-90 is a TDI terminated polyether prepolymer for use in medium performance elastomers, elastomeric coatings and adhesives. As with all polyurethane products, application and field testing are necessary to determine suitability of the product combination for specific application

PREPOLYMER SPECIFICATIONS

NCO% 5.25 – 5.65%

Viscosity, poise @ 212°F (100°C) 0.7 – 2.5

Specific Gravity @ 212°F (100°C)

Appearance @ 77°F (25°C) Viscous liquid

Color, Gardner

Flash Point, Cleveland Open Cup >380°F (193°C)

Solubility Soluble in aromatic or chlorinated hydrocarbons, ketones and esters

Storage Stability Excellent in the absence of moisture and heat

Amine Equivalent

PROCESSING CONDITIONS

Pre-Pol® PC 60-90 100 pts

MOCA (95% theory). pts

MIXING AND CURING

Prepolymer temperature 212°F (100°C)

Curative temperature 240°F (116°C)

Mold temperature 212°F (100°C)

Cure, hours 1 at 212°F (100°C)

Postcure, hours 16

Working Life, minutes 6

VULCANIZATE PROPERTIES

Test specimens conditioned one week at 75°F (24°C) and 50% RH before testing.

Hardness, durometer A 90

100% Modulus, psi 1180 ± 50 (4.30 ± 0.35 mPa)

300% Modulus, psi 2150 ± 200 (± 1.37 mPa)

Tensile Strength, psi 3400 ± 300 (5.18 ± 2.1 mPa)

Elongation at Break, % 380 ± 50

Tear Strength (ASTM D-470) psi 165 ± 5 (0.2 ± 0.03 mPa)

Tear Strength (Die C) psi 440 ± 5 (0.69 ± 0.03 mPa)

Compression Set (Method B), % After 22 h at 158°F (70°C)

Resilience (Rebound), % 26



Storage and Handling

Containers should be kept tightly closed to prevent moisture contamination. TDI will react with water to liberate CO₂ gas potentially causing containers to expand and rupture. Do not reseal if contamination is suspected.

Use of a dry nitrogen blanket for partial drums is recommended. Storage for PRE-POL® PC 60-90 should be a cool, dry place at ambient temperatures.

Exposure to temperatures over 350°F (177°C) can create excessive pressure potentially causing containers to rupture. Do not breathe aerosol or vapors and avoid contact with skin and eyes. Always use protective equipment including a respirator when handling heated prepolymers as exposure to vapors can be dangerous.

Devices such as melting ovens, thermostatically controlled warming blankets, or drum heaters can be used for pre-heating PRE-POL® PC 60-90.

Approximate preheat times at 158°F (70°C) are:

- 5 gallon pail (18.9 liters) 16 - 24 hours
- 55 gallon drum (208 liters) 36 - 48 hours

Containers should be rolled to ensure homogeneity prior to use.

Health and Safety Information

Appropriate literature has been assembled which provides information concerning the health and safety precautions that must be observed when handling any of the products listed above. Before working with these products, it is your responsibility to read and become familiar with the available information on its hazards, proper use and handling. This is extremely important and cannot be overemphasized. Information is available in several forms, e.g. material safety data sheets and product labels. To obtain this information, contact your Polycoat Products representative

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