



Product Description

POLYCOAT PRE-POL® PC 70-70D is a 75D PTMEG based material that yields a long working life when cured with MOCA. This product can be cured with MDA, Ethacure 100 to get shorter working life. Below are conditions and properties when cured with MOCA.

PREPOLYMER SPECIFICATIONS

NCO% 7.35-7.65

Viscosity, poise @ 212°F (100°C) 6 -12

Specific Gravity @ 212°F (100°C) 1.02

Appearance @ 77°F (25°C) Solid, free of contamination

Color, Gardner 0-3

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

PROCESSING CONDITIONS

Pre-Pol® PC 60-90 100 pts

MOCA (95% theory). 22.7 pts

MIXING AND CURING

Prepolymer temperature 212°F (100°C)

MBCA temperature 240°F (116°C)

Mold temperature 240°F (116°C)

Cure, hours 1 at 240 °F (100°C)

Postcure, hours 16

Working Life, minutes

.05 PPH of Adipic acid 30

.10 PPH of Adipic acid 15

.20 PPH of Adipic acid 5

VULCANIZATE PROPERTIES

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

Hardness, durometer A 73D

100% Modulus, psi 4100 ± 50 (28.3 ± 0.35 mPa)

Tensile Strength, psi 5400 ± 300 (37.23 ± 2.1 mPa)

Elongation at Break, % 160 ± 50

Tear Strength (ASTM D-470) psi 24 ± 5 (0.17 ± 0.03 mPa)

Tear Strength (Die C) psi n/a

Compression Set (Method A) 10



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 70-70D should be maintained in 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 70-70D.

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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