



Product Description

POLYCOAT PRE-POL® PC 50-71 is a TDI terminated polyester prepolymer that provides a 70 – 72 Shore A high performance elastomer when cured with MOCA (4,4-methylene-bis-(2-chloroaniline). Some of its unique properties include:

- Excellent abrasion resistance
- Good dynamic properties
- High tensile and tear properties
- Prepolymer melts quickly

PREPOLYMER SPECIFICATIONS

NCO% 2.35 – 2.65

Viscosity, poise @ 212°F (100°C) 11-13

Specific Gravity @ 212°F (100°C) 1.16

Appearance @ 77°F (25°C) Solid

Color, Gardner 0–2

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 1586 - 1788

PROCESSING CONDITIONS

Pre-Pol® PC 50-71 (2.53% NCO) 100 pts

MOCA (95% theory) 7.64 pts

MIXING AND CURING

Prepolymer temperature 180-212°F (83-100°C)

MOCA 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 12

VULCANIZATE PROPERTIES

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

Hardness, durometer A 72

100% Modulus, psi 410 ± 50 (2.82 ± 0.35 mPa)

300% Modulus, psi 530 ± 200 (3.65 ± 1.37 mPa)

Tensile Strength, psi 5500 ± 300 (37.9 ± 2.1 mPa)

Elongation at Break, % 665 ± 50

Tear Strength (ASTM D-470) psi 53 ± 5 (0.36 ± 0.03 mPa)

Tear Strength (Die C) psi 300 ±20 (2.07 ± 0.14 mPa)

Compression Set (Method B), % After 22 h at 158°F (70°C) 52

Resilience (Rebound), % 30



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