

## **Product Description**

POLYCOAT PRE-POL® PC 20-85 is an MDI terminated polyether prepolymer that yields high property elastomers in the 85A hardness range, when cured with 1,4 Butanediol. Some of its unique properties include:

- · Excellent abrasion resistance
- · Excellent hydrolytic stability
- · Excellent low- temperature properties
- · High Resilience

Vulcanizates from PRE-POL® PC 20-85 are uniquely suited for a wide variety of applications. Examples are wheels and pipe linings. As with all polyurethane products, application and field testing is recommended to determine suitability of the product combination for a specific application.

DBEDO!	VIVIED	SPECIE	ICATIONS

NCO%	6.09 - 6.56
Viscosity, poise @ 212°F (100°C)	6.0 – 9.0
Specific Gravity @ 212°F (100°C)	1.01
Appearance @ 77°F (25°C)	Clear viscous liquid
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	640 - 690

PROCESSING	CONDITIONS
INCCEDONAG	

Pre-Pol® PC 20-85 (6.70% NCO)	100 pts
1, 4 Butanediol (95% theory)	6.51 pts

Prepolymer temperature	200°F (93°C)
1, 4 Butanediol temperature	77–158°F (25–70°C)
Mold temperature	240°F (115°C)

**Cure, hours at** 1 at 240°F (115°C)

Postcure, hours at 240°F 16 (116°C)

MIXING AND CURING

Working Life, minutes 6

## **VULCANIZATE PROPERTIES**

Test specimens conditioned one week at 75°F (  $24^{\circ}\text{C})$  and 50% RH before testing.

Hardness, durometer A	85
100% Modulus, psi	880 ± 50 (6.06 ± 0.3 mPa)
300% Modulus, psi	1726 ± 200 (11.9 ± 1.4 mPa)
Tensile Strength, psi	5370 ± 300 (37 ± 2.1 mPa)
Elongation at Break, %	520 ±50
Tear Strength (ASTM D-470) psi	76 ± 5 (0.53 ± 0.03 mPa)
Tear Strength (Die C) psi	480 ±20 (3.31 ± 0.14 mPa)
Compression Set (Method B), % After 22 h at 158°F (70°C)	30

Lower durometers in the 60A to 85A range can be achieved with PC 20-85 by combining PC 90-20 curative with 1, 4 Butanediol. Contact your POLYCOAT representative for further information.

Resilience (Rebound), %



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