



**POLYCOAT
PRODUCTS**

A Division of American Polymers Corp.

POLYCOAT PC 90-20

Material Technical Data Sheet

POLYCOAT PC 90-20 is a high molecular weight polyether diol that can be used either alone or in conjunction with other curatives to produce quality elastomers from a variety of polyether prepolymers. Used alone, most prepolymers yield durometers in the 50 to 60 Shore A range. Higher performance elastomers in a variety of durometers can be achieved from polyether MDI prepolymers by blending in various proportions with 1, 4 Butanediol. Blends of PC 90-20 with MOCA can produce similar results with TDI polyether prepolymers. The vulcanizates exhibit the following characteristics:

- Good tear
- Good abrasion resistance
- Variable Resilience
- Suitable for FDA wet or dry applications

Curative Specifications:

Equivalent weight	475 – 520
Appearance @ 77°F	Waxy solid
Moisture content, %	<0.09

PROCESSING

Prepolymer Temperature, °F	180 – 200
Curative Temperature, °F	130 – 240
Curative Mole Ratio (in blends)	0.1 – 1.0
Cure	1 hr@240°F
Post Cure	16 hrs@240°F

At room temperature, this curative is a white, waxy solid that must be melted for appropriate processing. To prepare for use, place the containers in a 158°F oven until the contents are melted.

Limited Warranty:

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