



# POLYCOAT PRODUCTS

A Division of American Polymers Corp.

GREATER LOS ANGELES-14722 Spring Avenue - Santa Fe Springs, CA 90670  
DALLAS / FT.WORTH METROPLEX-2100 Reliance Parkway - Bedford, TX 76021

Tel: (562) 802-8834  
Fax: (562) 921-7363

www.Polycoat.com

## PRODUCT DATA SHEET

### PC 546-35A-100S-BLACK

#### Typical Properties PC 546-35A A-COMP (ISO)

NCO, %:	17.5-18.2
Viscosity, mPa-s @ 25°C:	400-500
Specific Gravity @ 25°C :	1.15
Appearance @ 25°C:	liquid

#### Typical Properties PC 546-35A B COMP(polyol blend)

Viscosity, mPa-s @ 25°C:	700-900
Specific Gravity @ 25°C :	1.05
Appearance @ 25°C:	liquid

#### Product Description:

PC 546 soft elastomers are two-component, casting elastomers with exceptionally high elongation suitable for many applications. The ability to extend gel times on these products allows for casting extremely large parts. The shore hardness can vary from 20-50A. Other hardness values may be supplied upon request.

#### Storage and Handling:

Containers for both A and B components should be kept tightly closed to prevent moisture contamination. Do not reseal if contamination is suspected. Use of a dry nitrogen blanket for partial drums is recommended. Component B may be stored at ambient temperatures. Storage for Component A should be maintained between 77°F (25°C) and 95°F (35°C). For best results, this product should not be allowed to freeze, although it may be re-heated in a well ventilated oven for a period of time to re-liquefy solid particles. To avoid product degradation, product temperature during re-heating should not exceed 140°F (60°C). An additional note of caution is that exposure to temperatures over 400°F (204°C) can create excessive pressure potentially causing containers to rupture. Do not breathe aerosol or vapors and avoid contact with skin and eyes. Exposure to vapors of heated MDI can be dangerous. To heat product properly, use well ventilated convection ovens or other methods that distribute heat evenly. Avoid using drum heaters or other heat sources that may cause excessive local heating.

#### 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.

Typical Physical Properties		
Hardness	Shore A	30-40
Resilience	% Rebound	60
Split Tear Strength	PLI	N.A
Die C Tear Strength	PLI	N.A
Tensile Strength	PSI	N.A
Ultimate Elongation	%	N.A
Shrinkage	In./in.	0.01-0.015

Processing Characteristics		
Mix ratio by weight A/B		25/75
Mix ratio by volume		N.A
A component temperature	°F	90-100
B Component temperature	°F	80-100
Mold temperature	°F	90-150
Gel time*, 74 °F	SECOND	90-100
<i>*Variety of gel times available</i>		