

## Polyurethane Specialty Products Group

# AIRTHANE® PHP-70D

## TDI-Polyether Prepolymer

### Prepolymer Properties

		Specifications	Typical
NCO (%)		8.0 - 8.5	8.3
Viscosity (cPs)	- 40 °C	-	2,800 - 3,200
	- 70 °C	≤ 700	450 - 600
Specific Gravity	- 70 °C	-	1.07
Residual TDI (%)		< 0.1	-

### Processing Conditions

MBOCA Level, 95% Stoichiometry (%)	25
Airthane Temperature (°C)	70
Pot Life (Min.) - 75 °C	3.0
Mold Temperature (°C)	100
Demold Time (Min.)	10
Post Cure (Hrs./Temp. °C)	15/100

### Typical Elastomer Properties (MBOCA Cured)

Hardness (D)	70
Modulus psi (MPa)	
100% Elongation	4,100 (28.3)
200% Elongation	6,600 (45.5)
Tensile Strength psi (MPa)	10,400 (71.7)
Elongation (%)	280
Tear Resistance PLI (N/mm)	
Die C	790 (138)
Split	110 (19)
Compression Set (%), Method A:	
1,350 psi (9.3 MPa), 22 hrs at 70 °C	1.4
Rebound (%)	64
Linear Shrinkage (%)	0.8
Linear Coefficient of Thermal (μM/M/°C)	129.7
Expansion at 25 °C	
Specific Gravity	1.18



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*To Order or Obtain  
More Information*

If you would like to place an order or receive additional information, please write or call Air Products at the following location.

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