

Polyurethane Specialty Products Group

AIRTHANE® PHP-80D

TDI-PolyetherPrepolymer

Prepolymer Properties

	Specifications	Typical
NCO (%) (WT)	10.6-11.4	11.1
Viscosity (cPs) - 40 °C	-	6,000 - 7,500
- 70 °C	< 825	600 - 800
Residual Monomeric TDI (%)	< 0.1	< 0.1

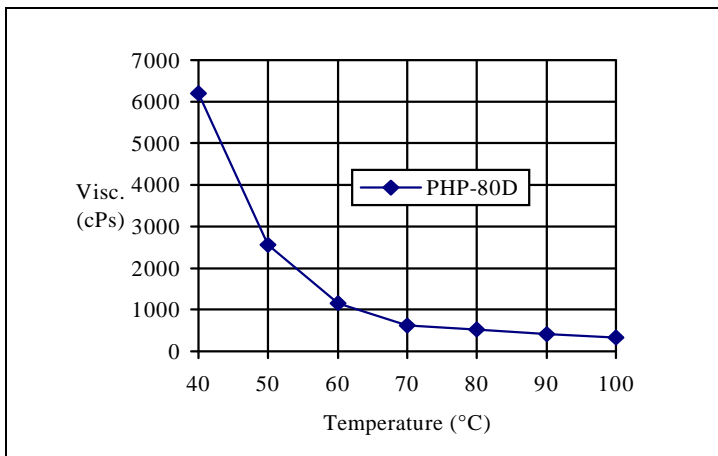
Processing Conditions

Stoichiometry (%)	95
Prepolymer Temperature (°C)	70
Curative Temperature (°C)	125
Gel Time (Min., 100 °C)	1.6
Mold Temperature (°C)	100
Demold Time (Min.)	15
Post Cure (Hrs./Temp. °C)	16/100

Typical Elastomer Properties (MBOCA Cured)

Hardness (Shore D)	80
Modulus psi (MPa)	
100% Elongation	6,870 (47.4)
Tensile Strength psi (MPa)	9,273 (63.9)
Elongation (%)	176
Tear Resistance PLI (N/mm)	
Die C	1,108 (194)
Split	121 (21)
Rebound (%)	66

Typical Viscosity Curve of Airthane PHP-80D Prepolymer





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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