

## Polyurethane Specialty Products Group

# AIRTHANE® PET-80A

## TDI-Polyether Prepolymer

### Prepolymer Properties

		Typical
NCO (%)		2.6
Viscosity (cPs)	- 40 °C	7,000 - 8,000
	- 70 °C	2,000 - 2,200
Specific Gravity	- 70 °C	0.98
Residual TDI (%)		< 0.1

### Processing and Elastomer Properties for Multiple Curatives

#### MBOCA Cured

### Processing Conditions

MBOCA Level, 95% Stoichiometry (%)	8
Airthane Temperature (°C)	90
Pot Life (Min.) - 75 °C	20
Mold Temperature (°C)	100
Demold Time (Min.)	90
Post Cure (Hrs./Temp. °C)	15/100

### Typical Elastomer Properties

Hardness (A)	79 - 80
Modulus psi (MPa)	
100% Elongation	600 (4.1)
300% Elongation	1,200 (8.3)
Tensile Strength psi (MPa)	5,000 (34.5)
Elongation (%)	550
Tear Resistance PLI (N/mm)	
Die C	350 (61)
Split	70 (12)
Compression Set (%), Method B:	
25% deflection, 22 hrs. at 70 °C	17
Rebound (%)	53
Brittleness Temperature (°C)	- 105
Specific Gravity	1.07
Linear Shrinkage (%)	1.6
Linear Coefficient of Thermal (µM/M/°C)	258.5
Expansion at 25 °C	
Electrical Properties	
Breakdown Voltage (KV)	35.1
Dielectric Strength V/mil (KV/mm)	273 (10.7)
Dielectric Constant at 1,000 Hz	5.93
Volume Resistivity (Ohms-Cm)	1.1 x 10 <sup>12</sup>
Power Factor	0.0224