

## *Polyurethane Specialty Products Group*

# **AIRTHANE® PET-91A**

## **TDI-Polyether Prepolymer**

### Prepolymer Properties

		Specifications	Typical
NCO (%)		4.1 - 4.5	4.3
Viscosity (cPs)	- 40 °C	-	3,200 - 3,700
	- 70 °C	≤ 1,300	800 - 1,000
Specific Gravity	- 70 °C	-	1.03
Residual TDI (%)		< 0.1	-

### Processing and Elastomer Properties for Multiple Curatives

#### MBOCA Cured

### Processing Conditions

MBOCA Level, 95% Stoichiometry (%)	12.2
Airthane Temperature (°C)	80
MOCA Temperature (°C)	120
Pot Life (Min.) - 75 °C	10
Mold Temperature (°C)	100
Demold Time (Min.)	30
Post Cure (Hrs./Temp. °C)	15/100

### Typical Elastomer Properties

Hardness (A)	90 - 91
Modulus psi (MPa)	
100% Elongation	1,100 (7.6)
200% Elongation	1,400 (9.7)
300% Elongation	1,700 (11.7)
Tensile Strength psi (MPa)	4,800 (33.1)
Elongation (%)	490
Tear Resistance PLI (N/mm)	
Die C	400 (70)
Split	80 (14)
Compression Set (%), Method B:	
25% deflection, 22 hrs. at 70 °C	27
Rebound (%)	58
NBS Abrasion Index	162
Linear Shrinkage (%)	1.2
Specific Gravity	1.08