

Polyurethane Specialty Products Group

AIRTHANE® PET-95A

TDI-Polyether Prepolymer

Prepolymer Properties

		Specifications	Typical
NCO (%)		6.0 - 6.5	6.25
Viscosity (cPs)	- 40 °C	-	1,800 - 2,200
	- 70 °C	≤ 500	375 - 475
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 (%)	18.4
Airthane Temperature (°C)	70
Pot Life (Min.) - 75 °C	6
Mold Temperature (°C)	100
Demold Time (Min.)	15
Post Cure (Hrs./Temp. °C)	15/100

Typical Elastomer Properties

Hardness (A)	95
Modulus psi (MPa)	
100% Elongation	2,400 (16.5)
200% Elongation	3,100 (21.4)
300% Elongation	5,100 (35.2)
Tensile Strength psi (MPa)	7,200 (49.6)
Elongation (%)	350
Tear Resistance PLI (N/mm)	
Die C	650 (114)
Split	100 (18)
Compression Set (%), Method B:	
25% deflection, 22 hrs at 70 °C	25
Compression Set (%), Method A:	
1,350 psi (9.3 MPa), 22 hrs. at 70 °C	5.4
Rebound (%)	46
NBS Abrasion Index	280
Brittleness Temperature (°C)	- 105
Specific Gravity	1.13
Linear Shrinkage (%)	1.6
Linear Coefficient of Thermal (μM/M/°C)	229.2
Expansion at 25 °C	
Electrical Properties	
Breakdown Voltage (KV)	37.8
Dielectric Strength V/mil (kv/MM)	317 (12.5)
Dielectric Constant at 1,000 Hz	5.58
Volume Resistivity (Ohms-Cm)	8.4 x 10 ¹²
Power Factor	0.0442