

Polyurethane Specialty Products Group

AIRTHANE® PET-70D

TDI-Polyether Prepolymer

Prepolymer Properties

		Specifications	Typical
NCO (%)		8.1 - 8.7	8.4
Viscosity (cPs)	- 40 °C	-	2,000-2,200
	- 70 °C	≤ 500	325 - 375
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	3.5
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	4,500 (31.0)
200% Elongation	6,600 (45.5)
Tensile Strength psi (MPa)	9,400 (64.8)
Elongation (%)	270
Tear Resistance PLI (N/mm)	
Die C	1,000 (175)
Split	120 (21)
Compression Set (%), Method A:	
1,350 psi (9.3 MPa), 22 hrs at 70 °C	1.2
Rebound (%)	57
Brittleness Temperature (°C)	- 60
Specific Gravity	1.18
Linear Shrinkage (%)	1.2
Electrical Properties	
Breakdown Voltage (KV)	40.6
Dielectric Strength V/mil (KV/mm)	331 (13.0)
Dielectric Constant at 1,000 Hz	4.88
Volume Resistivity (Ohms-Cm)	2.0 x 10 ¹⁴
Power Factor	0.0324