

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



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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