

Polyurethane Specialty Products Group

AIRTHANE® PET-75D

TDI-Polyether Prepolymer

Prepolymer Properties

		Specifications	Typical
NCO (%)		8.9 - 9.4	9.15
Viscosity (cPs)	- 40 °C	-	2,800 - 3,300
	- 70 °C	≤ 600	400 - 500
Specific Gravity	- 70 °C	-	1.07
Residual TDI (%)		< 0.1	-

Processing Conditions

MBOCA Level, 95% Stoichiometry (%)	27.2
Airthane Temperature (°C)	70
Pot Life (Min.) - 75 °C	2.5
Mold Temperature (°C)	100
Demold Time (Min.)	10
Post Cure (Hrs./Temp. °C)	15/100

Typical Elastomer Properties (MBOCA Cured)

Hardness (D)	75
Modulus psi (MPa)	
100% Elongation	6,400 (44.1)
Tensile Strength psi (MPa)	9,500 (65.5)
Elongation (%)	180
Tear Resistance PLI (N/mm)	
Die C	1,100 (193)
Split	110 (19)
Compression Set (%), Method A:	
1,350 psi (9.3 MPa), 22 hrs at 70 °C	1.8
Rebound (%)	63
NBS Abrasion Index	465
Brittleness Temperature (°C)	- 65
Specific Gravity	1.19
Linear Shrinkage (%)	1.2
Linear Coefficient of Thermal (μM/M/°C)	176.1
Expansion at 25 °C	
Electrical Properties	
Breakdown Voltage (KV)	39.5
Dielectric Strength V/mil,(KV/mm)	339 (13.3)
Dielectric Constant at 1,000 Hz	4.41
Volume Resistivity (Ohms-Cm)	1.5 x 10 ¹⁴
Power Factor	0.0225



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.

Corporate Headquarters

Air Products and Chemicals, Inc.
7201 Hamilton Boulevard
Allentown, PA 18195-1501 USA

Tel: (800) 345-3107

Tel: (610) 481-7064

Fax: (610) 481-4184

www.airproducts.com/psp

The information contained herein is offered without charge for use by technically qualified personnel at their discretion and risk. All statements, technical information and recommendations contained herein are based on tests and data which we believe to be reliable, but the accuracy or completeness thereof is not guaranteed and no warranty of any kind is made with respect thereto.

tell me more
www.airproducts.com