

Polyurethane Specialty Products Group

AIRTHANE® PPT-80A

TDI-PPG Prepolymer

Prepolymer Properties

		Specifications	Typical
NCO (%)		3.4 - 3.9	3.7
Viscosity (cPs)	- 40 °C	-	1,000 - 1,300
	- 70 °C	≤ 300	220 -280
Specific Gravity	- 70 °C	-	1.05
Residual TDI (%)		< 0.1	-

Processing Conditions

MBOCA Level, 95% Stoichiometry (%)	10.9
Airthane Temperature (°C)	70
Pot Life (Min.) - 75 °C	30
Mold Temperature (°C)	100
Demold Time (Min.)	60
Post Cure (Hrs./Temp. °C)	15/100

Typical Elastomer Properties (MBOCA Cured)

Hardness (A)	80
Modulus psi (MPa)	
100% Elongation	700 (4.8)
200% Elongation	800 (5.5)
300% Elongation	900 (6.2)
Tensile Strength psi (MPa)	2,400 (16.5)
Elongation (%)	770
Tear Resistance PLI (N/mm)	
Die C	310 (54)
Split	60 (11)
Compression Set (%), Method B:	
25% deflection, 22 hrs at 70 °C	35
Rebound (%)	50
Brittleness Temperature (°C)	- 60
Specific Gravity	1.09
Linear Shrinkage (%)	1.6
Linear Coefficient of Thermal (μM/M/°C)	162.5
Expansion at 25 °C	
Electrical Properties	
Breakdown Voltage (KV)	36.3
Dielectric Strength V/mil (KV/mm)	302 (11.9)
Dielectric Constant at 1,000 Hz	6.41
Volume Resistivity (Ohms-Cm)	7.1 X 10 ¹¹
Power Factor	0.0587



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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