

Polyurethane Specialty Products Group

AIRTHANE® PST-80A

TDI-Polyester Prepolymer

Prepolymer Properties

		Specifications	Typical
NCO (%)		2.9 - 3.3	3.1
Viscosity (cPs)	- 50 °C	≤ 10,500	7,500 - 8,500
	- 70 °C	≤ 3,100	2,200 - 2,400
Specific Gravity	- 70 °C	-	1.14
Residual TDI (%)		< 0.1	-

Processing and Elastomer Properties for Multiple Curatives

MBOCA Cured

Processing Conditions

MBOCA Level, 95% Stoichiometry (%)	9.2
Airthane Temperature (°C)	85
Pot Life (Min.) - 85 °C	20
Mold Temperature (°C)	100
Demold Time (Min.)	60
Post Cure (Hrs./Temp. °C)	15/100

Typical Elastomer Properties

Hardness (A)	80
Modulus psi (MPa)	
100% Elongation	600 (4.1)
300% Elongation	1,400 (9.7)
Tensile Strength psi (MPa)	8,200
Elongation (%)	640
Tear Resistance PLI (N/mm)	
Die C	430 (75)
Split	105 (18)
Compression Set (%), Method B:	
25% deflection, 22 hrs at 70 °C	25
Rebound (%)	35
NBS Abrasion Index	170
Specific Gravity	1.26

Versalink[®] MCDEA Cured

Processing Conditions

Versalink MCDEA Level, 95% Stoichiometry (%)	12.7
Airthane Temperature (°C)	85
Pot Life (Min.) - 85 °C	3.5
Mold Temperature (°C)	100
Demold Time (Min.)	60
Post Cure (Hrs./Temp. °C)	48/130

Typical Elastomer Properties

Hardness (A)	90
Modulus psi (MPa)	
100% Elongation	1,200 (8.3)
200% Elongation	1,500 (10.3)
300% Elongation	2,000 (13.8)
Tensile Strength psi (MPa)	8,200 (56.5)
Elongation (%)	540
Tear Resistance PLI (N/mm)	
Die C	540 (95)
Split	130 (23)
Compression Set (%), Method B:	
25% deflection, 22 hrs at 70 °C	31
Rebound (%)	40
NBS Abrasion Index	200



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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