

Polyurethane Specialty Products Group

AIRTHANE® PET-93A
TDI-Polyether Prepolymer

Prepolymer Properties

		Specifications	Typical
NCO (%)		5.0 - 5.4	5.2
Viscosity (cPs)	- 40 °C	-	2,600 - 3,200
	- 70 °C	≤ 800	600 - 700
Specific Gravity	- 70 °C	-	1.02
Residual TDI (%)		< 0.1	-

Processing and Elastomer Properties for Multiple Curatives

MBOCA Cured

Processing Conditions

MBOCA Level, 95% Stoichiometry (%)	15.6
Airthane Temperature (°C)	75
Pot Life (Min.) - 75 °C	7
Mold Temperature (°C)	100
Demold Time (Min.)	20
Post Cure (Hrs./Temp. °C)	15/100

Typical Elastomer Properties

Hardness (A)	93
Modulus psi (MPa)	
100% Elongation	1,600 (11.0)
200% Elongation	2,000 (13.8)
300% Elongation	2,900 (20.0)
Tensile Strength psi (MPa)	5,500 (37.9)
Elongation (%)	380
Tear Resistance PLI (N/mm)	
Die C	410 (72)
Split	80 (14)
Compression Set (%), Method B:	
25% deflection, 22 hrs at 70 °C	25
Rebound (%)	52
Specific Gravity	1.11

Versalink® MCDEA Cured

Processing Conditions

Versalink MCDEA Level, 95% Stoichiometry (%)	21.9
Airthane Temperature (°C)	55
Pot Life (Min.) - 55 °C	3
Mold Temperature (°C)	100
Demold Time (Min.)	20
Post Cure (Hrs./Temp. °C)	16/100

Typical Elastomer Properties

Hardness (A/D)	96/49
Modulus psi (MPa)	
100% Elongation	2,055 (14.2)
200% Elongation	3,035 (20.9)
Tensile Strength psi (MPa)	4,535 (31.3)
Elongation (%)	258
Tear Resistance PLI (N/mm)	
Die C	462 (81)
Split	52 (9)
Rebound (%)	57

Ethacure® 300 Cured

Processing Conditions

Ethacure 300 Level, 95% Stoichiometry (%)	12.5
Airthane Temperature (°C)	75
Pot Life (Min.) - 75 °C	8
Mold Temperature (°C)	100
Demold Time (Min.)	20
Post Cure (Hrs./Temp. °C)	15/100

Typical Elastomer Properties

Hardness (A)	90
Modulus psi (MPa)	
100% Elongation	1,300 (9.0)
200% Elongation	1,700 (11.7)
300% Elongation	2,500 (17.2)
Tensile Strength psi (MPa)	4,700 (32.4)
Elongation (%)	390
Tear Resistance PLI (N/mm)	
Die C	425 (74)
Split	74 (13)
Compression Set (%)	25
Rebound (%)	53
NBS Abrasion Index	244

Trademarks and Suppliers

Ethacure Albemarle Corporation



*To Order or Obtain
More Information*

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