

Polyurethane Specialty Products Group

VERSATHANE® D-55

TDI-Polyester Prepolymer

Prepolymer Properties

		Specifications	Typical
NCO (%)		5.3 - 5.7	5.5
Viscosity (cPs)	- 70 °C	≤ 3,200	2,400 - 3,200
	- 100 °C	-	500
Specific Gravity	- 100 °C	-	1.17
Appearance		-	White, Waxy Solid
Residual TDI (%)		< 0.7	< 0.5

Processing Conditions

Stoichiometry (%)	95
Versathane Temperature (°C)	100
MBOCA Temperature (°C)	110 - 115
Mold Temperature (°C)	100
Pot Life (Min.) – 100 °C	3 - 6
Gel Time (Min.)	5 - 9
Demold Time (Min.)	30
Post Cure (Hrs./Temp. °C)	16/100

Typical Elastomer Properties (MBOCA Cured)

Stoichiometry (%)	90	95
MBOCA Level (PPH)	16.0	16.9
Hardness (D)	55	55
Modulus psi (MPa)		
100% Elongation	2,200 (15.2)	2,300 (15.9)
300% Elongation	3,650 (25.2)	3,920 (27.0)
Tensile Strength psi (MPa)	6,700 (46.2)	7,100 (49.0)
Elongation (%)	380	460
Tear Resistance PLI (N/mm)		
Die C	660 (116)	680 (119)
Split	390 (68)	410 (72)
Compression Set (%), Method B:		
25% deflection, 22 hrs. at 70 °C	30	33
Rebound (%)	33	34
Compression Modulus psi (MPa)		
10%	1,010 (7.0)	1,080 (7.4)
25%	2,100 (14.5)	2,250 (15.5)
Specific Gravity	1.29	1.29



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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