

Polyurethane Specialty Products Group

VERSATHANE® A-85QM

TDI-Polyester Prepolymer

Prepolymer Properties

	Specifications	Typical
NCO (%)	3.3 - 3.7	3.6
Viscosity (cPs)	≤ 4,800	3,500 - 4,800
- 70 °C		
- 100 °C	-	1,000
Specific Gravity	-	1.15
- 100 °C	-	
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	8 - 10
Gel Time (Min.)	10 - 14
Demold Time (Min.)	60
Post Cure (Hrs./Temp. °C)	16/100

Typical Elastomer Properties
(MBOCA Cured)

Stoichiometry (%)	85	90	95	100
MBOCA Level (PPH)	9.6	10.3	10.9	11.4
Hardness (A)	85	86	86	86
Modulus psi (MPa)				
100% Elongation	760 (5.2)	770 (5.3)	800 (5.5)	780 (5.4)
300% Elongation	1,380 (9.5)	1,400 (9.7)	1,410 (9.7)	1,420 (9.8)
Tensile Strength psi (MPa)	5,700 (39.3)	5,900 (40.7)	6,300 (43.4)	6,350 (43.8)
Elongation (%)	580	585	5,900	620
Tear Resistance PLI (N/mm)				
Die C	435 (76)	460 (81)	465 (81)	440 (77)
Split	230 (40)	260 (46)	265 (46)	260 (46)
Compression Set (%), Method B:				
25% deflection, 22 hrs. at 70 °C	27	28	32	41
Rebound (%)	27	28	28	30
Compression Modulus psi (MPa)				
10%	300 (2.1)	320 (2.2)	330 (2.2)	330 (2.3)
25%	650 (4.5)	700 (4.8)	725 (5.0)	700 (4.8)
Specific Gravity	1.25	1.25	1.25	1.25



*To Order or Obtain
More Information*

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