

Polyurethane Specialty Products Group

VERSATHANE® A-9QM

TDI-Polyester Prepolymer

Prepolymer Properties

		Specifications	Typical
NCO (%)		4.0 - 4.4	4.2
Viscosity (cPs)	- 70 °C	≤ 4,250	3,100 – 4,250
	- 100 °C	-	~ 900
Specific Gravity	- 100 °C	-	1.16
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	6 - 8
Gel Time (Min.)	8 - 12
Demold Time (Min.)	60
Post Cure (Hrs./Temp. °C)	16/100

Typical Elastomer Properties (MBOCA Cured)

Stoichiometry (%)	85	90	95	100
MBOCA Level (PPH)	11.1	11.7	12.4	13.0
Hardness (A)	91	91	91	92
Modulus psi (MPa)				
100% Elongation	980 (6.8)	1,010 (7.0)	1,015 (7.0)	1,020 (7.0)
300% Elongation	1,870 (12.9)	1,960 (13.5)	2,030 (14.0)	1,980 (13.7)
Tensile Strength psi (MPa)	6,300 (43.4)	6,500 (44.8)	6,600 (45.5)	6,600 (45.5)
Elongation (%)	520	540	545	560
Tear Resistance PLI (N/mm)				
Die C	505 (88)	540 (95)	550 (96)	540 (95)
Split	290 (51)	300 (53)	320 (56)	310 (54)
Compression Set (%), Method B:				
25% deflection, 22 hrs. at 70 °C	26	27	34	40
Rebound (%)	31	32	32	31
Compression Modulus psi (MPa)				
10%	435 (3.0)	450 (3.1)	460 (3.2)	450 (3.1)
25%	1,090 (7.5)	1,120 (7.7)	1,120 (7.7)	1,100 (7.6)
Specific Gravity	1.26	1.26	1.26	1.26

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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