

Polyurethane Specialty Products Group

VERSATHANE® A-8QM

TDI-Polyester Prepolymer

Prepolymer Properties

		Specifications	Typical
NCO (%)		3.1 - 3.5	3.3
Viscosity (cPs)	- 70 °C	≤ 5,100	3,800 – 5,100
	- 100 °C	–	~ 1,200
Specific Gravity	- 100 °C	–	1.14
Appearance		–	White, Waxy Solid
Residual TDI (%)		< 0.7	< 0.5

Processing Conditions

Stoichiometry (%)	95
Versathane Temperature (°C)	100
MOCA Temperature (°C)	110 - 115
Mold Temperature (°C)	100
Pot Life (Min.) – 100 °C	10 - 12
Gel Time (Min.)	12 - 16
Demold Time (Min.)	60
Post Cure (Hrs./Temp. °C)	16/100

Typical Elastomer Properties (MBOCA Cured)

Stoichiometry (%)	85	90	95	100
MOCA Level (PPH)	8.4	8.9	9.4	9.9
Hardness (A)	81	81	81	82
Modulus psi (MPa)				
100% Elongation	500 (3.4)	550 (3.8)	550 (3.8)	560 (3.9)
300% Elongation	950 (6.6)	1,040 (7.2)	1,050 (7.2)	1,060 (7.3)
Tensile Strength psi (MPa)	5,600 (38.6)	5,800 (40.0)	6,000 (41.4)	6,100 (42.1)
Elongation (%)	600	625	625	635
Tear Resistance PLI (N/mm)				
Die C	335 (59)	370 (65)	380 (67)	390 (68)
Split	190 (33)	225 (39)	230 (40)	235 (41)
Compression Set (%), Method B:				
25% deflection, 22 hrs. at 70 °C	27	28	32	46
Rebound (%)	28	31	32	32
Compression Modulus psi (MPa)				
10%	210 (1.4)	220 (1.5)	235 (1.6)	230 (1.6)
25%	580 (4.0)	600 (4.1)	600 (4.1)	610 (4.2)
Specific Gravity	1.25	1.25	1.25	1.25



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.

Corporate Headquarters

Air Products and Chemicals, Inc.
7201 Hamilton Boulevard
Allentown, PA 18195-1501 USA

Tel: 800-345-3148
Tel: 610-481-6799 (Outside the U.S. and Canada)
Fax: 610-481-4381
www.airproducts.com/psp

The information contained herein is offered without charge for use by technically qualified personnel at their discretion and risk. All statements, technical information and recommendations contained herein are based on tests and data which we believe to be reliable, but the accuracy or completeness thereof is not guaranteed and no warranty of any kind is made with respect thereto.

tell me more
www.airproducts.com