

## Polyurethane Specialty Products Group

# VERSATHANE® A-75QM

## TDI-Polyester Prepolymer

### Prepolymer Properties

		<b>Specifications</b>	<b>Typical</b>
NCO (%)		2.5 - 2.9	2.7
Viscosity (cPs)	- 70 °C	≤ 5,100	3,800 – 5,100
	- 100 °C	–	1,300
Specific Gravity	- 100 °C	–	1.4
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	9 - 11
Gel Time (Min.)	20 - 25
Demold Time (Min.)	60
Post Cure (Hrs./Temp. °C)	16/100

### Typical Elastomer Properties (MBOCA Cured)

Stoichiometry (%)	85	90	95	100
MBOCA Level (PPH)	7.1	7.5	7.9	8.3
Hardness (A)	76	76	76	76
Modulus psi (MPa)				
100% Elongation	380 (2.6)	395 (2.7)	400 (2.8)	410 (2.8)
300% Elongation	500 (3.4)	540 (3.7)	540 (3.7)	550 (3.8)
Tensile Strength psi (MPa)	4,800 (33.1)	5,000 (34.5)	5,200 (35.9)	5,400 (37.2)
Elongation (%)	650	680	680	685
Tear Resistance PLI (N/mm)				
Die C	260 (46)	280 (49)	285 (50)	295 (52)
Split	140 (25)	160 (28)	160 (28)	165 (29)
Compression Set (%), Method B:				
25% deflection, 22 hrs. at 70 °C	32	34	37	40
Rebound (%)	32	32	33	33
Compression Modulus (psi)				
10%	160 (1.0)	175 (1.2)	185 (1.3)	190 (1.3)
25%	430 (3.0)	460 (3.2)	470 (3.2)	475 (3.3)
Specific Gravity	1.23	1.23	1.23	1.24



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## ***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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