

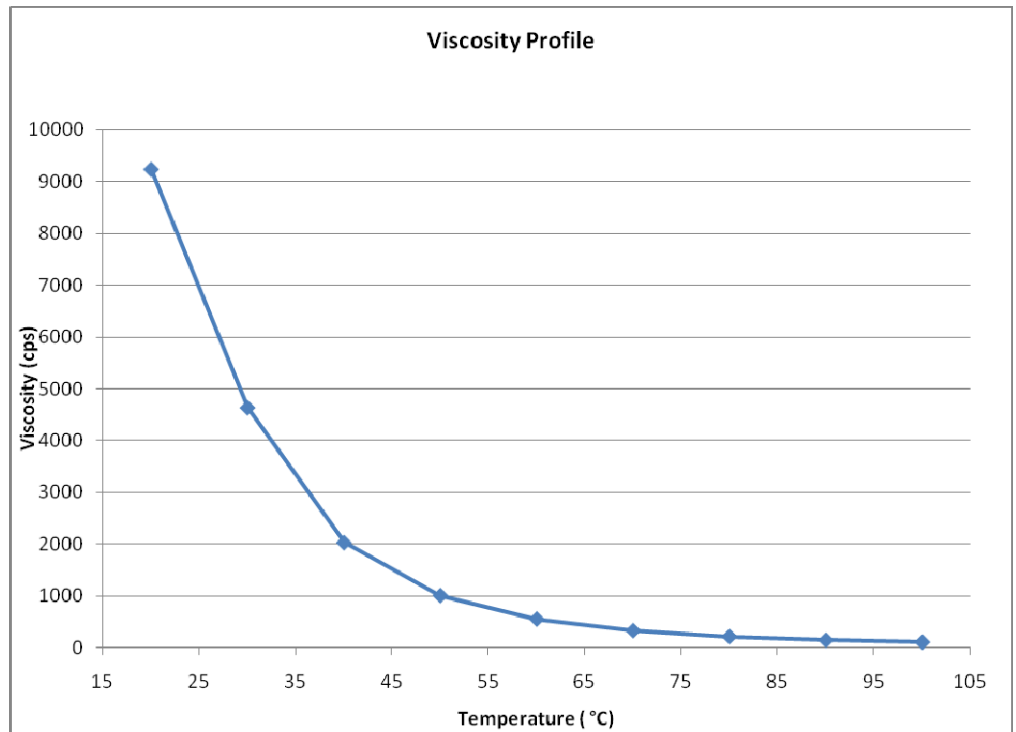
Polyurethane Specialty Products Group

AIRTHANE® PPT-90A

TDI-Polyether Prepolymer

Prepolymer Properties

		Specifications	Typical
NCO (%)		-	4.8
Viscosity (cPs)	40 °C	-	2,000
	70 °C	-	330
Specific Gravity	70 °C	-	1.05
Residual TDI (%)		< 0.1	-



Processing and Elastomer Properties for Multiple Curatives

MBOCA Cured

Processing Conditions

MBOCA Level, 95% Stoichiometry (%)	14.2
Airthane Temperature (°C)	70
Pot Life (Min.; 70 °C)	7
Gel Time (Min.; 100 °C)	9
Mold Temperature (°C)	100
Demold Time (Min.)	12
Post Cure (Hrs./Temp. °C)	16/100

Typical Elastomer Properties

Hardness (A)	90
Modulus psi (MPa)	
100% Elongation	1,300 (9)
200% Elongation	1,700 (12)
300% Elongation	2,200 (15)
Tensile Strength psi (MPa)	2,900 (20)
Elongation (%)	380
Tear Resistance PLI (N/mm)	
Die C	410 (72)
Split	50 (9)
Compression Set (%), Method B: 25% deflection, 22 hrs at 70 °C	11
Rebound (%)	39
Density (gm/cm ³)	1.12
Compression Modulus, psi (MPa)	
5%	240 (1.7)
10%	360 (2.5)
15%	490 (3.4)
20%	650 (4.5)
25%	840 (5.8)

Ethacure® 300 Cured

Processing Conditions

Ethacure 300 Level, 95% Stoichiometry (%)	11.4
Airthane Temperature (°C)	70
Pot Life (Min.; 70 °C)	8
Gel Time (Min.; 100 °C)	7
Mold Temperature (°C)	100
Demold Time (Min.)	11
Post Cure (Hrs./Temp. °C)	16/100

Typical Elastomer Properties

Hardness (A)	91	
Modulus psi (MPa)		
100% Elongation	1,300	(9)
200% Elongation	1,600	(11)
300% Elongation	2,000	(14)
Tensile Strength psi (MPa)	2,900	(20)
Elongation (%)	410	
Tear Resistance PLI (N/mm)		
Die C	460	(80.6)
Split	60	(10.5)
Compression Set (%), Method B: 25% deflection, 22 hrs at 70 °C	8	
Rebound (%)	54	
Density (gm/cm ³)	1.09	
Compression Modulus, psi (MPa)		
5%	270	(1.9)
10%	400	(2.8)
15%	530	(3.7)
20%	670	(4.6)
25%	810	(5.6)

Trademarks and Suppliers

Ethacure.....Albermarle Corporation
Airthane.....Air Products and Chemicals, Inc.

*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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