

Polyurethane Specialty Products Group

AIRTHANE® API-470

IPDI-PPG Prepolymer

Prepolymer Properties

	Typical
NCO (%)	6.3 - 7.0
Viscosity (cPs) - 40 °C	3,700 - 5,300
Residual IPDI (%)	< 0.8

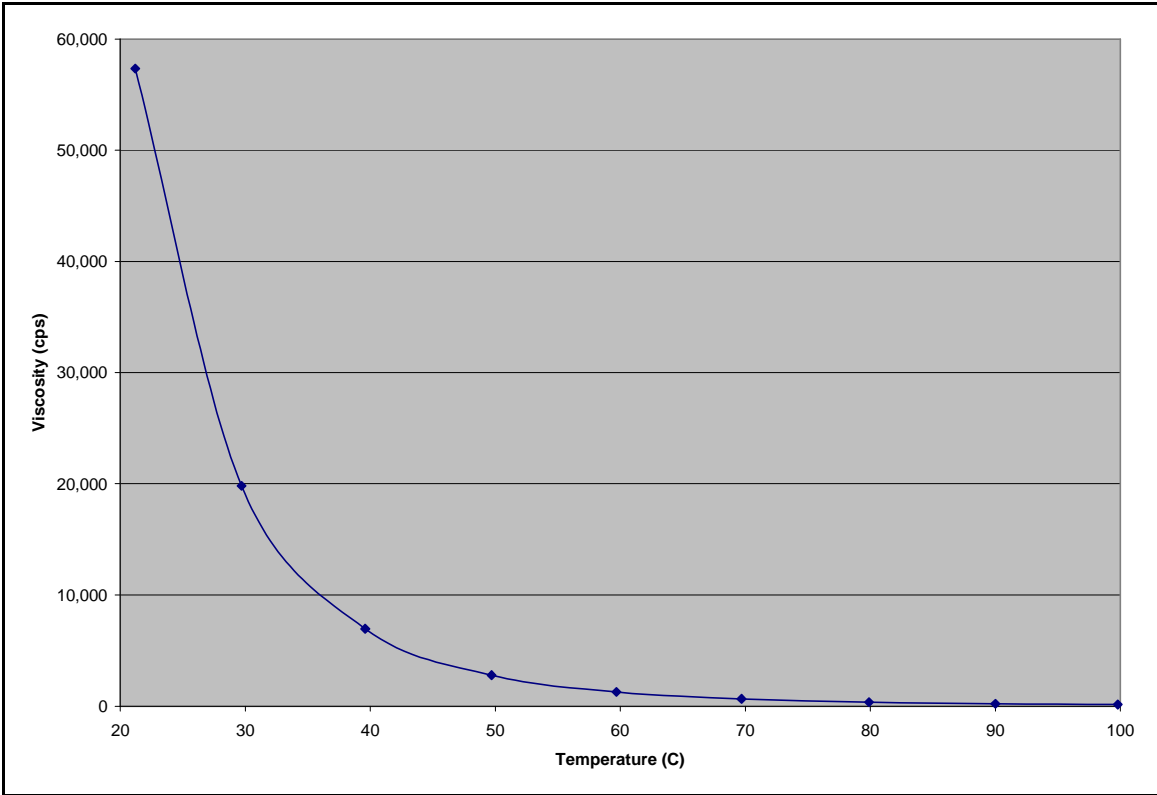
Processing Conditions

Stoichiometry (%)	95
Airthane Temperature (°C)	70
Curative Temperature (°C)	125
Pot Life (Min. 100 °C)	90
Mold Temperature (°C)	100
Post Cure (Hrs./Temp. °C)	16/100

Typical Elastomer Properties (MBOCA Cured)

Hardness (Shore D)	65
Modulus psi (MPa)	
100% Elongation	1,600 (11.0)
200% Elongation	3,400 (23.4)
Tensile Strength psi (MPa)	4,400 (30.3)
Elongation (%)	230
Tear Resistance PLI (N/mm)	
Die C	476 (83)
Split	143 (25)
Compression Modulus psi (MPa)	
5%	1,100 (7.6)
10%	1,500 (10.3)
15%	1,900 (13.1)
20%	2,300 (15.9)
25%	2,700 (18.6)
Compression Set (%), Method A:	
1,350 psi (9.3 MPa), 22 hrs at 70 °C	7
Rebound (%)	48

Typical Viscosity Curve of Airthane API-470 Prepolymer





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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