

ISO 1130A

HIGH PERFORMANCE DYNAMIC MECHANICAL POLYURETHANE PREPOLYMER

DESCRIPTION

ISO 1130A is a polyether based urethane prepolymer exhibiting extremely high wear and flex life when cured with standard amine type curatives.

ISO 1130A systems are recommended for abrasive particles or continuous flex applications such as pump impellers, chute liners, discharge elbows, shock pads, etc.

FEATURES

Excellent Oil Resistance
Excellent Low Temperatures Qualities -40Deg F
Hand or Machine Processing
Excellent Abrasion Resistance
Outstanding Tensile Strength

LIQUID PROPERTIES

Appearance	Viscous Liquid (77 Deg F)	Amber Liquid (150 Deg F)
Viscosity (cps)	3500 - 4000	1200 - 1300 (150 Deg F)
Density (lbs/gal)	8.50 - 8.70	
NCO%	2.80 - 3.00	

PHYSICAL PROPERTIES WHEN CURED WITH AMN 6010B

Hardness, Shore A	82
Modulus, psi, 100%	1150
300%	1240
Tensile Strength, Ultimate, psi	4600
Elongation, %	610
Tear Strength "Die C" lbs/in	460
Compression Set. % (ASTM D395-B)	37
Rebound	46

ISO 1130A Continued:

PROCESSING PARAMETERS

Melt and process ISO 1130A at 175 to 225 degrees F.

Mold Temperature: 150 to 250 degrees F.

Mix Ratio: 100 parts ISO 1130A to 7.00 parts AMN 6010B by weight.

Degas mixture if possible or Pre-degas Isocyanate in dispensing equipment prior to casting.

Pot Life: (200g mass) (150 F) 8 to 12 minutes

Demold: 1 - 2 hours or 30 - 45 minutes with maximum process and mold temperature.
Catalyst may also be used to shorten demold time.

Post Cure: 16 - 24 hours @ 140 degrees F.

STORAGE

Systems should be stored unopened in air tight containers at 60 - 90 degrees F. Partially emptied containers should be swept free of atmospheric moisture with dry nitrogen before sealing.

HANDLING PRECAUTIONS

For complete and updated health and safety information, read the MATERIAL SAFETY DATA SHEETS. Do not handle or use until the MATERIAL SAFETY DATA SHEET has been read and understood.