

ISO 850A

HIGH PERFORMANCE DYNAMIC MECHANICAL POLYURETHANE PREPOLYMER

DESCRIPTION

ISO 850A is a high performance polyether based urethane prepolymer with extremely high wear, cut and tear resistance when cured with standard amine type curatives

ISO 850A is recommended where gouging, cutting, tearing, sharp particles and sliding abrasion are common place. Applications include sand screws, classifier shoes, sizing screens, wear plates, oil housings, etc.

FEATURES

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

LIQUID PROPERTIES

Appearance	Viscous Liquid (77 Deg F)	Amber Liquid (200 Deg F)
Viscosity (cps)	Viscous Liquid (77 Deg F)	600 - 800 (200 Deg F)
Density (lbs/gal)	8.50 - 8.70	
NCO%	4.00 - 4.30	

PHYSICAL PROPERTIES WHEN CURED WITH AMN 6010B

Hardness, Shore A	90
Modulus, psi, 100%	1050
300%	2800
Tensile Strength, Ultimate, psi	4900
Elongation, %	375
Tear Strength "Die C" lbs/in	490
Compression Set, % (ASTM D395-B)	30
Bayshore Rebound, %	38

ISO 850A Continued:

PROCESSING PARAMETERS

Melt and process ISO 850A at 175 to 225 degrees F.

Mold Temperature: 150 to 250 degrees F.

Mix Ratio: 100 parts ISO 850A to 10.00 parts AMN 6010B by weight.

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

Pot Life: (200g mass) (200 F) 6 to 10 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.