

ISO 951A

HIGHLY ABRASION RESISTANT POLYURETHANE PREPOLYMER

DESCRIPTION

ISO 951A is a polyester based urethane prepolymer exhibiting extremely high wear and cut tear resistance when cured with standard amine type curatives.

ISO 951A systems are recommended for sliding abrasive particles or continuous cut gouge applications such as urethane sheet, chute liners, discharge elbows, wear pads, etc.

FEATURES

Outstanding Cut-Tare Resistance
Excellent High Temperatures Qualities
Hand or Machine Processing
Excellent Abrasion Resistance
Superior Water Resistance

LIQUID PROPERTIES

Appearance	Semi-Solid (77 Deg F)	Amber Liquid (160 Deg F)
Viscosity (cps)	Semi-Solid (77 Deg F)	3400-4400 (160 Deg F)
Density (lbs/gal)	8.50 – 8.70	
NCO%	4.85 – 5.05	

PHYSICAL PROPERTIES WHEN CURED WITH AMN 6010B

Hardness, Shore A	88-92
Modulus, psi, 100%	1050
300%	2850
Tensile Strength, Ultimate, psi	4900
Elongation, %	375
Tear Strength "Die C" lbs/in	490
Compression Set. % (ASTM D395-B)	20
Bayshore Rebound, %	38

ISO 951A Continued:

PROCESSING PARAMETERS

Melt and process ISO 951A at 150 to 200 degrees F.

Mold Temperature: 140 to 200 degrees F.

Mix Ratio: 100.00 parts ISO 951A to 11.95 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) 5 to 8 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.