

ISO 1010A

FLEXIBLE HIGH DUROMETER IMPACT RESISTANT POLYURETHANE PREPOLYMER

DESCRIPTION

ISO 1010A is a high modulus polyether based urethane prepolymer with good rigidity and impact resistance when cured with standard amine type curatives.

ISO 1010A is recommended for applications where stiffness with remote flexibility and impact resistance are of consideration such as, wheels, impact guards, guide slots, support plates, etc.

FEATURES

Good Flexibility
High Impact Strength
Excellent Tensile Strength
Hand or Machine Processing
Outstanding Oil Resistance
Low Process Viscosity

LIQUID PROPERTIES

Appearance	Viscous Liquid (77 Deg F)	Amber Liquid (150 Deg F)
Viscosity (cps)	32,000 – 36,000 (77 Deg F)	1500 - 1800 (150 Deg F)
Density (lbs/gal)	9.20 – 9.40	
NCO%	8.80 – 9.00	

PHYSICAL PROPERTIES WHEN CURED WITH AMN 6010B

Hardness, Shore D	65
Modulus, psi, 100%	2500
300%	4000
Tensile Strength, Ultimate, psi	6900
Elongation, %	250
Tear Strength lbs/in	140
Compression Set, % (ASTM/D395-B)	36

ISO 1010A Continued:

PROCESSING PARAMETERS

Melt and process ISO 1010A at 125 to 175 degrees F.

Mold Temperature: 150 to 200 degrees F.

Mix Ratio: 100 parts ISO 1010A to 21.50 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) 2 to 4 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 @ 150 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.