

ISO 840A

HIGH MODULUS & RIGIDITY **IMPACT RESISTANT** **POLYURETHANE PREPOLYMER**

DESCRIPTION

ISO 840A is a high modulus polyether based urethane prepolymer with strong rigidity and excellent impact resistance when cured with standard amine type curatives.

ISO 840A is recommended for applications where stiffness and impact resistance are of consideration such as, wheels, impact guards, guide slots, support plates, etc.

FEATURES

Excellent High Temperature Properties
High Rigidity
Superior Impact Strength
Excellent Tensile Strength
Hand or Machine Processing

LIQUID PROPERTIES

Appearance	Viscous Liquid (77 Deg F)	Amber Liquid (200 Deg F)
Viscosity (cps)	22,000 – 25,000 (77 Deg F)	2000 - 2500 (200 Deg F)
Density (lbs/gal)	9.20 – 9.40	
NCO%	11.40 – 11.60	

PHYSICAL PROPERTIES WHEN CURED WITH AMN 6010B

Hardness, Shore D	80
Modulus, psi, 100%	4300
Tensile Strength, Ultimate, psi	9025
Elongation, %	180
Tear Strength lbs/in	105
Compression Set, Method A	10
Impact Resistance Ft-Lbs/In	12

ISO 840A Continued:

PROCESSING PARAMETERS

Melt and process ISO 840A at 175 to 225 degrees F.

Mold Temperature: 150 to 250 degrees F.

Mix Ratio: 100 parts ISO 840A to 27.60 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 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: 2 - 3 hours @ 250 degrees F
then 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.