

# **ISO 900A**

## **HIGH CUT TEAR** **ABRASION RESISTANT** **POLYURETHANE PREPOLYMER**

### **DESCRIPTION**

ISO 900A is a high performance polyether based urethane prepolymer with extremely high wear, cut and tear resistance when cured with standard amine type curatives.

ISO 900A 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**

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

### **LIQUID PROPERTIES**

Appearance	Semi-Solid (77 Deg F)	Amber Liquid (200 Deg F)
Viscosity (cps)	Semi-Solid (77 Deg F)	400 - 600 (200 Deg F)
Density (lbs/gal)	9.20 – 9.40	
NCO%	6.10 – 6.40	

### **PHYSICAL PROPERTIES WHEN CURED WITH AMN 6010B**

Hardness, Shore A	95
Modulus, psi, 100%	1250
300%	2900
Tensile Strength, Ultimate, psi	5900
Elongation, %	325
Tear Strength "Die C" lbs/in	520
Compression Set. % (ASTM D395-B)	30
Bayshore Rebound, %	40

## **ISO 900A Continued:**

### **PROCESSING PARAMETERS**

Melt and process ISO 900A at 175 to 225 degrees F.

Mold Temperature: 150 to 250 degrees F.

Mix Ratio: 100 parts ISO 900A to 15.40 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) 4 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.