SHEETING SPECIFICATION

Novex Polyurethane Sheet

Novex polyurethane sheet is a high-performance, polyester-based, cast urethane elastomer specifically engineered for lining applications that demand superior resistance to abrasion, impact, cutting, and tearing. Our advanced continuous casting process ensures consistent thickness across all sheet types and enables long-length capabilities.

With tensile strength twice that of the best natural rubber compounds, Novex outperforms traditional lining materials, such as rubber, steel, and UHMW, in abrasion resistance.

Typical Novex Sheet Applications:

- Chute Liners
- Clicker Press Pads
- Conveyor Belt Skirting
- Conveyor Belt Wipers
- Cyclone Liners
- Deflector Liners
- Distributor Liners
- Diverters
- Duct Liners
- Elbow Liners
- Hopper Liners
- Pulley & Sheave Liners
- Screw Conveyor Troughs
- Shot Blast Cabinet Liners
- Spout Liners
- Striker Pads

Key Benefits:

Exceptional Resiliency: Withstands impact without permanent deformation or rupture. Offers outstanding tear resistance, even under sharp, heavy, or abrasive conditions.

Superior Oil and Solvent Resistance: Won't crack under high concentrations of emissions, ensuring durability in demanding environments.

Noise Reduction: Acts as an effective noise abatement material when bonded to metal surfaces.

Cost-Effective: Extended service life reduces operational downtime, enhancing overall efficiency.

Wide Temperature Tolerance: Suitable for temperatures ranging from -60°F to 185°F, making it versatile in various conditions.

Novex Polyurethane Sheet is the ideal choice for applications requiring durability, resilience, and long-lasting performance.

NOVEX

74 Robinson Ave Barberton, OH 44203 • 330.335.2371 • sales@novexinc.com

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Novex Sheet Physical Properties

	ASTM Test Method	CU-65	CU-75	CU-85	FG-85	FG-95
Durometer, Shore A	D-676-49T	65	75	85	85	93
Specific Gravity	D-792	1.24	1.24	1.24	1.20	1.236
Tensile Strength (PSI)	D-412-61T	5500	6500	7500	5800	6125
300% Tensile Modulus (PSI)	D-412-61T	1000	1000	1700	1650	2980
100% Tensile Modulus (PSI)	D-412-61T	500	500	625	700	1456
Ultimate Elongation %	D-412-61T	450	500	600	480	480
Tear Strength (PLI)	D-624 (DIE C)	288	350	450	462	780
Compression Set, Method B	D-395	40%	50%	35%	54%	33%
Volume Resistivity (ohm/cm)	D-257	6x1010	6x1010	6x1010	6x1010	N/A
Pico Abrasion, Index No.	D-2228-69	N/A	160	225	N/A	N/A
Taber Abrasion (mg wt. loss)	D-3389	0.026	0.032	0.027	0.024	N/A
Water Absorbtion	D-570	N/A	0.8	0.8	N/A	N/A
Grease and Oils		E	E	E	E	E
Organic Solvents		G-E	G-E	G-E	G-E	G-E
Resistance to 130° F Water	D-746	G	G	G	G	G
130° F - 158° F		M	M	M	M	M
High Relative Humidity		G	G	G	G	G
Sunlight		M	M	M	M	M
Ozone		E	E	E	E	E
Continuous Loading		175°F	185°F	185°F	185°F	N/A
Heat (° F)						
Intermittent Loading		250°F	250°F	250°F	250°F	N/A
Brittle Point (Solenoid)		-70°F	-70°F	-70°F	-70°F	N/A

Legend		
E	=	Excellent
G	=	Good
M	=	Moderate
N/A	=	Not Available

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