



# NOVITANE<sup>®</sup>

POLYURETHANE SHEET

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## POLYURETHANE SHEET PRODUCTS

NOVITANE is a polyester base, cast urethane elastomer formulated and designed for material lining applications requiring exceptional resistance to abrasion, impact, cutting and tearing. Our unique continuous casting process provides long length capability and insures a consistently uniform thickness on all grades and styles of NOVITANE sheet.

TENSILE STRENGTH is twice as strong as the best natural rubber compounds and its ABRASION RESISTANCE outwears other lining materials such as rubber, steel, and

UHMW. Excellent RESILIENCY withstands impact without permanent deformation or rupture and has exceptional TEAR RESISTANCE when subjected to sharp, heavy or abrasive materials. Excellent OIL-SOLVENT RESISTANCE and will not crack when subjected to high concentrations of OZONE. An excellent NOISE ABATEMENT material when bonded to metal surfaces. ECONOMICAL since its extended service life reduces operational downtime frequency. Wide TEMPERATURE RANGE of up to 185° F or a low of -60° F.

### PHYSICAL PROPERTIES

	ASTM TEST METHOD	CU-55	CU-65	CU-75	CU-85	FG-85	FG-95
DUROMETER, SHORE A	D-676-49T	55	65	75	85	85	93
SPECIFIC GRAVITY	D-792	N/A	1.24	1.24	1.24	1.20	1.236
TENSILE STRENGTH (PSI)	D-412-61T	2700	5500	6500	7500	5800	6125
300% TENSILE MODULUS (PSI)	D-412-61T	230	1000	1000	1700	1650	2980
100% TENSILE MODULUS (PSI)	D-412-61T	175	500	500	625	700	1456
ULTIMATE ELONGATION %	D-412-61T	765	450	500	600	480	480
TEAR STRENGTH (PLI)	D-624 (DIE C)	125	288	350	450	462	780
COMPRESSION SET 22 HRS. @ 158° F METHOD B	D-395	36%	40%	50%	35%	54%	33%
WATER ABSORPTION - 24 HRS. %	D-570	N/A	N/A	0.8	0.8	N/A	N/A
GREASE AND OILS		E	E	E	E	E	E
ORGANIC SOLVENTS		G-E	G-E	G-E	G-E	G-E	G-E
RESISTANCE TO 130° F WATER		G	G	G	G	G	G
RATING (1) 130° F - 158° F HIGH RELATIVE HUMIDITY		M	M	M	M	M	M
SUNLIGHT		G	G	G	G	G	G
OZONE		M	M	M	M	M	M
CONTINUOUS LOADING HEAT° F		E	E	E	E	E	E
INTERMITTENT LOADING		N/A	175° F	185° F	185° F	185° F	N/A
BRITTLE POINT (SOLENOID)	D-746	N/A	250° F	250° F	250° F	250° F	N/A
VOLUME RESISTIVITY OHM/CM	D-257	N/A	-70° F	-70° F	-70° F	-70° F	N/A
PICO ABRASION, INDEX NO.	D-2228-69	N/A	6x10 <sup>10</sup>	6x10 <sup>10</sup>	6x10 <sup>10</sup>	6x10 <sup>10</sup>	N/A
TABER ABRASION (MG WT. LOSS)	D-3389	N/A	N/A	160	225	N/A	N/A
		N/A	.026	.032	.027	.024	N/A

E = EXCELLENT    G = GOOD    M = MODERATE    N/A = NOT AVAILABLE

### TYPICAL NOVITANE APPLICATIONS

CHUTE LINERS  
CLICKER PRESS PADS  
CONVEYER BELT SKIRTING  
CONVEYER BELT WIPERS

CYCLONE LINERS  
DEFLECTOR LINERS  
DISTRIBUTOR LINERS  
DIVERTERS

DUCT LINERS  
ELBOW LINERS  
HOPPER LINERS  
PULLEY & SHEAVE LINERS

SCREW CONVEYER TROUGHS  
SHOT BLAST CABINET LINERS  
SPOUT LINERS  
STRIKER PADS

SURGE TANK LINERS  
TURN HEAD LINERS  
VIBRATING CONVEYER LINES  
VIBRATING SCREENS

## NOVEX

258 Main Street • Wadsworth, Ohio 44281  
Phone: (330) 335-2371 • Fax: (330) 336-8934  
<http://www.novitane.com> • e-mail: [novex@novitane.com](mailto:novex@novitane.com)

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