



NOVITANE[®]

POLYURETHANE SHEET

Novitane®

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 ¹⁰ | 6x10 ¹⁰ | 6x10 ¹⁰ | 6x10 ¹⁰ | 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

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