



PHYSICAL PROPERTIES OF

PENTATHANE[®]

FROM MOLDED DIMENSIONS

Rollers

Scrapers

Gears

Liners

Couplings

Drive Wheels

Impellers

Insulators

U Cups

Squeegees

MDI reduced our part cost by compression molding our urethane diaphragm to height, avoiding costly secondary operations.
Project Manager
pump and valve manufacturer

MDI provided a turnkey urethane solution including sourcing the metal insert for our low volume handle project.
Buyer
construction equipment manufacturer

Molded Dimensions reduces our machine downtime by providing abrasion resistant rollers that are machined to extremely tight tolerances.
Engineer
packaging equipment company



ISO 9001
FM.589712

Engineered Elastomer Solutions
... to help you win!

Visit us on the web... www.moldeddimensions.com

PHYSICAL PROPERTIES OF MDI PENTATHANE®

Pentathane® is Molded Dimensions' name for its Polyurethane formulations.

It has five outstanding properties:

- Wide range of hardnesses
- High load-bearing
- High abrasion resistance
- Low coefficients of friction
- Good resistance to gas, oil, alkali and acid attack

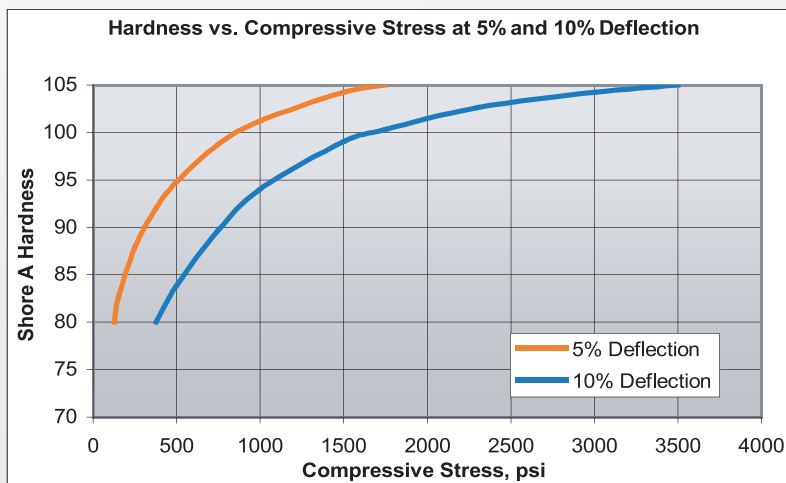
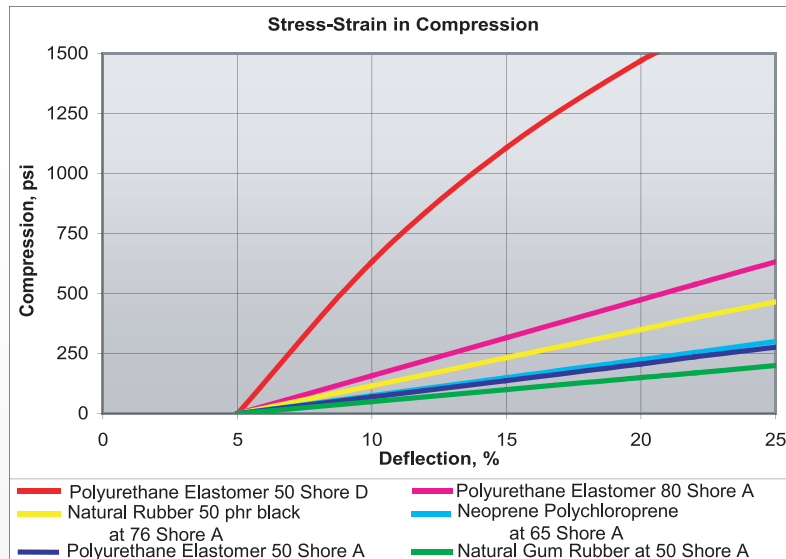
Pentathane® formulations are designed to meet your Most demanding applications. Additives such as Teflon, Silicone and others can be used to achieve application-specific formulations.

Features of MDI's Pentathane® 6300 Polyester include:

- High abrasion resistance
- High tear strength
- High solvent, fuel and oil resistance
- High dry heat resistance to 200F
- High electrical conductivity

Features of our Pentathane® 6400 Polyether include:

- Reduced frictional properties
- Improved low-temperature flexibility
- Extended flex life
- Increased hydrolytic stability
- Higher rebound



COMPOUND	40A ester	50A ester	60A ester	70A ester	80A ester	85A ether	90A ester	90A ether	50D ester	50D ether	60D ester	60D ether	75D ether
Hardness D-2240	A 40	A 50	A 60	A 70	A 80	A 85	A 90	A 90	D 50	D 50	D 60	D 60	D 75
Modulus D-412 PSI													
100%	180	210	260	310	580	700	1015	1100	1800	2200	2100	3100	6400
300%	350	380	550	500	905	1200	2030	2200	4200	4100	5090	5800	8700
Tensile D-412 PSI	2800	2980	3300	5400	6100	4680	6600	5500	6600	5500	8600	8700	9500
Elongation % D-412	550	560	445	650	660	580	545	380	380	380	400	280	180
Comp Set A 70 Hr 150F	0.8	3.5	3.2	31	28	35	34	28	32	32	28	25	33
Split Tear PLI D-470	7	11	17	60	225	85	320	90	140	125	210	130	110
Bashore Rebound % D-495	48	47	20	30	31	50	32	42	40	32	30	45	63

For additional technical information, visit us on the web... www.moldeddimensions.com



Molded Dimensions

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