



**PROPERTIES AND CHARACTERISTICS
OF PYRATHANE® POLYURETHANES**
(APPROXIMATE)

	<u>BEST ALL-ROUND MATERIALS</u>		<u>MATERIALS FOR SPECIAL APPLICATIONS</u>			
	<u>83A</u>	<u>92AE</u>	<u>83ADP7</u>	<u>83ASD</u>	<u>70A</u>	<u>HYTREL®</u>
DESIGNATION						
RECOMMENDED INITIAL STRETCH	10%	7.5%	12.5%	12.5%	15%	5%
SHORE A HARDNESS ASTM D 2240	85 ± 3	93 ± 4	85 ± 3	85 ± 3	72 ± 4	92 ± 3
ULTIMATE TENSILE STRENGTH IN PSI ASTM D 412	6,000	5,900	6,000	4,300	3,500	4,000 ASTM D 638
ULTIMATE ELONGATION % ASTM D 412	500	500	550	670	700	550 ASTM D 638
TENSILE MODULUS IN PSI AT 100% ELONGATION AT 300% ELONGATION ASTM D 412	750 1700	1500 3600	700 1100	740 1160	500 800	at 5% 340 at 10% 530 ASTM D 638
TEAR STRENGTH PLI DIE "C" ASTM D 624	500	550	550	370	380	580 PLI DIE "C" ASTM D 638
ADVANTAGES	High co-efficient of friction, excellent flex life and abrasion resistance	Higher torque carrying capacity	Resistance to ultraviolet light and very high humidity	Static dissipative	Lively rubber-like properties	Greater temp range and wider chemical resistivity
DISADVANTAGES (relative to our 83A material)		Shorter flex life and lower co-efficient of friction	Slightly lower modulus and abrasion resistance	Slightly lower modulus and lower tensile strength	Lower torque carrying capacity and abrasion resistance	Poor abrasion resistance

This data is provided for general information and material comparison. The potential user should perform tests to determine the product's performance and suitability in the intended application. Final determination of the fitness of the product for any particular use is the responsibility of the buyer.

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