

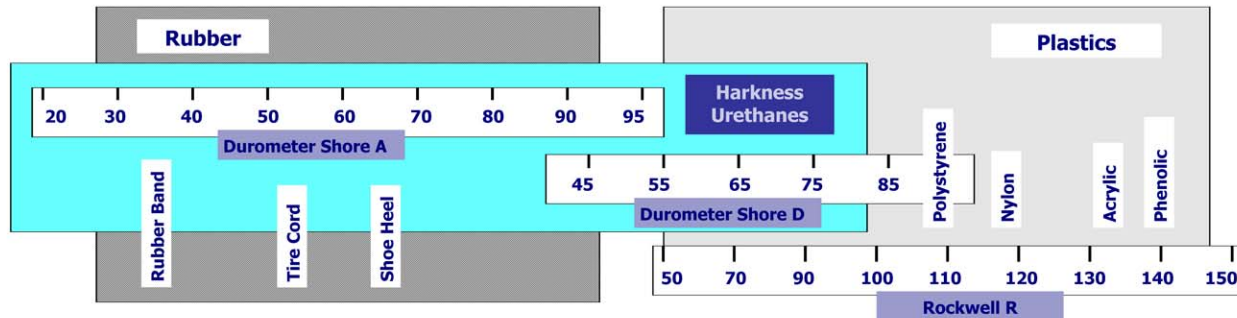


# NATIONWIDE PLASTICS, INC.

"The Authority On Plastics Manufacturing And Distribution"



## Urethane Product Selector Guide Typical Applications



APPLICATIONS	REPLACES	MP 300	MP 600	MP 750	MP 850	MP 900	MP 950	MP 160	MP 175	Key Physical Properties
		30A	60A	75A	85A	90A	95A	60D	75D	Hardness or Durometer, Shore A & D
Bumper Pads	Rubber		X	X	X					Resilience, Tear
Cutter Bars	UHMW, Wood					X	X			Tear, Compression/Deflection
Wear Pads	UHMW, Metal				X	X	X		X	Abrasion, Tear, Resilience
Gaskets	Rubber, Cork	X	X	X	X	X	X			Compression Set, Chem. Resistance
Drive/Idler Rollers	UHMW, Rubber		X	X	X				X	Tear, Compression/Deflection
Die Cutting Pads	UHMW, Wood				X	X	X			Tear, Compression/Deflection
Wiper Blades	Rubber		X	X	X	X				Tear, Abrasion, Solvent Resistance
Hydraulic Seals	Rubber					X	X			Oil Resistance, Compression Set
Bushings	Rubber, Metal			X	X	X	X			Abrasion, Tear
Isolation Vibration	Rubber				X	X	X			Resilience, Compression/Deflection
Tires & Wheels	Rubber				X	X	X	X		Heat build-up, Compression Set
Material Handling	UHMW, Metal		X	X	X	X	X			Abrasion, Tear, Resilience

Can't find your end use ... Urethanes are used in hundreds of applications. Call our Design Engineers for an expert recommendation.

Call us TOLL-FREE 800-343-4275

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## Urethane Product Selector Guide Material Properties

MECHANICAL PROPERTY	ASTM Test	MP 300	MP 600	MP 750	MP 850	MP 900	MP 950	MP 160	MP 175
<b>Durometer, Shore</b>	D-2240	30A	60A	75A	85A	90A	95A	60D	75D
<b>100% Modulus, psi</b>	D-412	80	250	350	600	1,100	1,800	3,000	5,500
<b>300% Modulus, psi</b>	D-412	170	600	1,000	1,500	2,100	4,000	6,500	-
<b>Tensile, psi</b>	D-412	380	4,500	5,500	6,000	4,500	5,500	6,500	7,500
<b>Elongation, %</b>	D-412	515	500	500	500	450	320	300	225
<b>Tear, pli Die C type</b>	D-624	90	200	250	400	400	450	700	850
<b>Compression Set, % Method B, 22 hrs. @ 70° C</b>	D-395	9	10	15	25	30	40	50	-
<b>Modulus of Elasticity, psi</b>	D-638	-	500	1,500	2,800	4,400	8,600	12,500	-
<b>Compression Properties Shape Factor 0.56</b>									
<b>Deflection, psi @ 5%</b>	D-575	15	30	70	180	310	450	1,000	2,150
<b>Deflection, psi @ 10%</b>	D-575	25	70	140	390	625	890	1,600	3,700
<b>Deflection, psi @ 15%</b>	D-575	34	110	220	560	875	1,170	2,200	4,700
<b>Deflection, psi @ 20%</b>	D-575	38	160	280	690	1,125	1,400	3,000	6,000
<b>Deflection, psi @ 25%</b>	D-575	44	220	330	800	1,350	1,600	4,000	7,250
<b>Abrasion Resistance, Tabor H18 @1000g load, mg loss/1000 cycles</b>	C-501	-	30	40	40	30	40	80	450
<b>Specific Gravity</b>	D-792	1.26	1.26	1.26	1.26	1.10	1.15	1.20	1.20
<b>Polymer Base</b>		Ester	Ester	Ester	Ester	Ether	Ether	Ether	Ether

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