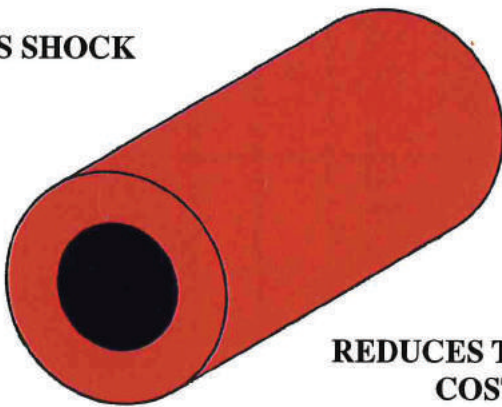


- PUNCH STRIPPERS
- DIE SPRINGS

POWERTHANE is a select group of polyurethane formulations meeting the high energy storing flexing requirements of the tool and die industry. Items listed are **standard hardness 90 shore A durometer** – widely used for most general applications – tensile strength 5700 P.S.I. – maximum recommended deflection 30%.

ABSORBS SHOCK



**REDUCES TOOLING
COSTS**

SPECIAL SIZES & DUROMETERS AVAILABLE

POWERTHANE is easily sliced to length, for bandsawing a high tension carbon blade with a rake set at a maximum of 1800 ft./mn. is suggested; for lathe cuts use HSS tool bits with 10° positive rake at 800 surface ft./mn., to maintain die balance keep ends square, rotating tubes while cutting will facilitate square cuts.

POWERTHANE deflects but does not compress, spacing consideration should allow for expansion equal to deflection.

POWERTHANE's highest pressures are available with shorter lengths, and greater mass, care should be used to avoid over deflection causing heat build up, shortening wear life.

POWERTHANE I.D.'s are wring fit for standard punches, dowels and stripper bolts as approved by ANSI.

PART #	LENGTH L	I.D.	O.D.	LOAD POUNDS TO DEFLECT	
				1/8"	1/4"
P 150	1 1/2	1 1/2	3	2100	3300
	1 3/4			1950	3100
	2			1700	2700
	2 1/4			1500	2400
	2 1/2			1350	2100
	3			1100	1800
P 150	25"			—	—
P 175	1 1/2	1 3/4	3 1/4	2300	3700
	1 3/4			2150	3400
	2			2000	3200
	2 1/4			1800	2900
	2 1/2			1550	2500
	3			1300	2100
P 175	25"			—	—
P 200	1 1/2	2	3 1/2	2400	3900
	1 3/4			2250	3600
	2			2100	3400
	2 1/4			1900	3100
	2 1/2			1650	2700
	3			1400	2300
P 200	25"			—	—
P 225	1 1/2	2 1/4	4	2550	4100
	1 3/4			2400	3900
	2			2250	3600
	2 1/4			2050	3300
	2 1/2			1800	2900
	3			1600	2600
P 225	25"			—	—
P 250	1 1/2	2 1/2	4 1/2	2700	4300
	1 3/4			2600	4100
	2			2450	3900
	2 1/4			2350	3700
	2 1/2			2100	3400
	3			1850	3000
P 250	25"			—	—
P 300	1 1/2	3	5	2700	4300
	1 3/4			2600	4200
	2			2450	4000
	2 1/4			2350	3800
	2 1/2			2100	3400
	3			1850	3000
P 300	25"			—	—
P 400	1 1/2	4	5 1/2	2550	4100
	1 3/4			2400	3800
	2			2250	3600
	2 1/4			2050	3300
	2 1/2			1800	2900
	3			1550	2500
P 400	25"			—	—

Pressures are approximate, each additional 1/8" deflection increases pressure 60% up to maximum recommended deflection of 30%.