

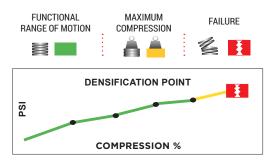
LOWEST PSI AT COMPRESSION

HIGHEST PSI AT COMPRESSION

FUNCTIONAL RANGE OF MOTION

The only moving parts on a cutting die are the ejection materials.

Freem	BUTED BY an Mfg. & Supply Co. FreemanSupply.com		Typical Application			Compression/Deflection Force (PSI) at Various Percentages of Compression									Shore Value* For Reference Only	
Prod	ucts	Firmness	Rotary	Flat	10%	20%	25%	30%	40%	50%	60%	70%	80%	90%	00	A
KRUS	SE [™]	Xtra Soft	✓	✓	4	5	5.4	5.9	7.2	9.3	13.6	25	65	*	45-55	5-15
MR 5	50	Xtra Soft	✓		6	8.5	9	9.6	11.5	15	22.5	43.5	120	*	55-65	10-20
1000	00	Soft	✓	✓	7	9.6	10.5	11.5	13.8	17.6	25.6	47.4	132	*	65-75	15-25
1200	00	Soft	✓	✓	8	11.5	13	14.4	18	23.5	36.5	77.5	190	*	60-70	15-25
MR 1	100	Medium	✓	✓	10.2	15	16.8	18.4	22.5	29	44.5	82	205	*	65-75	15-25
2200	00	Medium	✓	✓	11.3	16	17.8	19.5	24	31	46.3	90.4	220	*	65-75	15-25
Supe	er Strip - 27	Medium	✓	✓	14.5	20.5	22.4	24.3	28.9	36	51.2	92.4	I		65-75	15-25
MR 2	24	Medium	✓		13.6	20.3	22.7	25	32.2	44	77	191	I		70-80	20-30
Red I	Rhino™	Medium	✓	✓	15.5	23	25.2	27.6	33	41.5	60	114	250	*	70-80	20-30
MR 3	35	Firm	✓	✓	19.5	29.8	33	36	43.3	55	80.5	155	I		75-85	25-35
MR 7	75	Firm		✓	22.4	33	36.2	39.5	47.7	61	113.5	165	I		70-80	20-30
MR 4	10	Firm	✓	✓	25.7	40	44.7	49.3	60.6	95	125	225	I		75-85	25-35
Green G'rilla [™]		Firm		✓	31	49.4	56	62	78.2	106.4	166	291	I		80-90	35-45
BK-8	35	Firm	✓	✓	32.4	52.5	59.5	66	82.8	110.5	167	300	I		80-90	35-45
Supe	er Strip - 45 (std.)	Xtra Firm	✓	✓	39.5	59.7	66.2	72.5	86.8	110	154.2	267	I		80-90	35-45
Supe	er Strip - 65	Xtra Firm	✓	✓	63.4	106.8	122.7	137.9	173.8	232.7	Ŧ				85-95	45-55
1350	00 Cork	Xtra Firm		✓	60.9	99.2	119.9	145.3	225.9	I					-	-



As with any moving mechanical or compressible part, there is a maximum functional range of motion. Once that range is exceeded, the item no longer functions properly, which will lead to failure.

This chart shows each product's maximum functional range of motion in green. Once the functional range is exceeded, it enters the yellow densification point, where the rubber becomes solid and can no longer compress. Go beyond this point, and the rubber will fail, breaking apart. For the ejection rubber to work properly, it must remain within the green.

*Durometer shore is the measure of the hardness of a material's surface. Since it only measures a small point of the material surface with limited penetration, the test method is less accurate in determining ejector performance. Our focus is on "Performance"! Compression Force Deflection, measured in pounds per square inch (PSI), is the accurate test method to measure material firmness at varying compressive levels—a true representation of performance as an ejector in an application.