

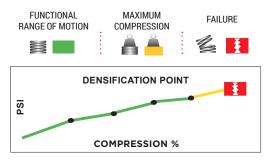
LOWEST PSI AT COMPRESSION

HIGHEST PSI AT COMPRESSION

FUNCTIONAL RANGE OF MOTION

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

		Typi Applic		Compression/Deflection Force (PSI) at Various Percentages of Compression								Shore Value* For Reference Only			
Products	Firmness	Rotary	Flat	10%	20%	25%	30%	40%	50%	60%	70%	80%	90%	00	Α
KRUSE™	Xtra Soft	✓	✓	4	5	5.4	5.9	7.2	9.3	13.6	25	65	Ŧ	45-55	5-15
MR 50	Xtra Soft	✓		6	8.5	9	9.6	11.5	15	22.5	43.5	120	Ŧ	55-65	10-20
10000	Soft	✓	✓	7	9.6	10.5	11.5	13.8	17.6	25.6	47.4	132	Ŧ	65-75	15-25
12000	Soft	✓	✓	8	11.5	13	14.4	18	23.5	36.5	77.5	190	Ŧ	60-70	15-25
MR 1100	Medium	✓	✓	10.2	15	16.8	18.4	22.5	29	44.5	82	205	Ŧ	65-75	15-25
22000	Medium	✓	✓	11.3	16	17.8	19.5	24	31	46.3	90.4	220	*	65-75	15-25
Super Strip - 27	Medium	✓	✓	14.5	20.5	22.4	24.3	28.9	36	51.2	92.4	*		65-75	15-25
MR 24	Medium	✓		13.6	20.3	22.7	25	32.2	44	77	191	*		70-80	20-30
Red Rhino"	Medium	✓	✓	15.5	23	25.2	27.6	33	41.5	60	114	250	*	70-80	20-30
MR 35	Firm	✓	✓	19.5	29.8	33	36	43.3	55	80.5	155	I		75-85	25-35
MR 75	Firm		✓	22.4	33	36.2	39.5	47.7	61	113.5	165	*		70-80	20-30
MR 40	Firm	✓	✓	25.7	40	44.7	49.3	60.6	95	125	225	Ŧ		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-85	Firm	✓	✓	32.4	52.5	59.5	66	82.8	110.5	167	300	I		80-90	35-45
Super Strip - 45 (std.)	Xtra Firm	✓	✓	39.5	59.7	66.2	72.5	86.8	110	154.2	267	I		80-90	35-45
Super Strip - 65	Xtra Firm	✓	✓	63.4	106.8	122.7	137.9	173.8	232.7	I				85-95	45-55
13500 Cork	Xtra Firm		✓	60.9	99.2	119.9	145.3	225.9	*					-	-



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.

Learn More About Functional Range of Motion

MONROE RUBBER & PLASTIC - COLOR OPTIONS

The below x's indicate products readily available. All products can be manufactured in any of the below colors but will require a minimum quantity commitment for each order and a slightly longer lead time.

Product Line	White	Black	Gray	Red	Tan	Orange	Blue	Brick Red	Green	Dark Green
KRUSE™		Х	Х							
MR 50	Х	х		х			Х			
10000		х	х	х	х	х	Х			
12000		х	х	х	х	х	х			
MR 1100		х								
22000	Х	х	х	х	х	х	х		х	
MR 24		х								
Red Rhino™		х		х			х			
MR 35									х	
MR 75						х	х	х		
MR 40	X					х	Х			
Green G'rilla™										х
BK 85	Х	Х					Х			

PRODUCT COLORS - PART NUMBERS KRUSE[™] MR 50 12000 22000 **MR 24** 10000 MR 1100 **Stripper Foam** Blk - 27100 ☐ Wht - 22000 Blk - 7100 Blk - MRK100 ☐ Wht - MR50000 Blk - 10100 Blk - 12100 Blk - MR24100 ■ Blk - 22100 Gry - MRK300 Blk - MR50100 Gry - 10300 Gry - 12300 Gry - 22300 Red - MR50500 Red - 10500 Red - 12500 Blue - MR50900 Tan - 10700 Tan - 12700 Red - 22500 Or - 10800 Or - 12800 Tan - 22700 Blu - 10900 Blu - 12900 Or - 22800 Blu - 22900 Grn - 22G00 **Super Strip** Red Rhino **MR 35 MR 75 MR 40** Green G'rilla" **BK-85** 27-65 Density 13500 Cork Or - MR75800 ☐ Wht - 27000 ☐ Wht - MR26000 ☐ Wht 27 - 42000 Blk - 24100 Drk Grn - MR26600 Cork - 13500 Grn - 35600 Red - 26500 Blu - MR75900 Or - 27800 ■ Blk - MR26100 ☐ Wht 45 - 40000 Blu - 26900 Blu - 27900 Blu - MR26900 ☐ Wht 65 - RG000 Brk Red - MR7500



Monroe Rubber & Plastic, Inc.

An employee owned and operated company.

The Science of Die Ejection

Our only focus: Engineering, manufacturing and supplying die ejection materials.

No one else can say that.

Product names and part numbers do not reference durometer values. Please refer to our website (monroerubber.com) for further technical information including our Functional Range of Motion chart and calculator.