



Precision Ground Balls

Our Rubber Balls are precision ground to remove parting lines for a superior sealing surface. Ground balls are available in a variety of Polymers in durometers from 70 to 90. Our standard materials are listed below. Compound 5716 is usually available “off the shelf”.

ASTM Designation	Common Polymer Name	Standard Compound	Duro
NBR	Nitrile, Buna N	5716	70
FKM	Fluoroelastomer	9746	75
CR	Neoprene	4753	70
EPDM	EPDM	23701	70
HNBR	Hydrogenated NBR	55801	75

Most compounds 70 Durometer and higher in these five polymers can be used to make ground balls. We are sometimes able to grind balls in compounds or polymers that are not normally ground. Contact us to find out if we can produce your special requirement.

Ground balls are available in the sizes and tolerances listed below. Because our balls are ground after molding, you do not need to consider compound shrinkage.

PSI Size	Fractional Diameter	Decimal Diameter	Diametric Tolerance +/-	Sphericity
1901-188	3/16	.187	.003	.003
1901-250	1/4	.250	.003	.003
1901-312	5/16	.312	.003	.003
1901-375	3/8	.375	.003	.003
1901-437	7/16	.438	.004	.004
1901-500	1/2	.500	.004	.005
1901-625	5/8	.625	.004	.005
1901-750	3/4	.750	.004	.005

Please contact Pressure Seals for sizes not listed.



Molded Balls

Molded Rubber Balls can be made in almost every one of our 900+ compounds. Current tooling is listed below.

Mold IDen	Size	
901-044		.044
901-127	1/8 in	.127
901-134		.134
901-156	5/32 in	.156
901-188	3/16 in	.188
901-200		.200
901-218	7/32 in	.218
901-250	1/4 in	.250
901-259		.259
901-264		.264
901-281	9/32 in	.281
901-312	5/16 in	.312
901-325		.325
901-375	3/8 in	.375
901-390	25/64 in	.390
901-402		.402
901-454		.454
901-500	1/2 in	.500
901-528		.528

Mold IDen	Size	
901-645		.645
901-750	3/4 in	.750
901-760		.760
901-768		.768
901-775		.775
901-788	20 mm	.788
901-866	22 mm	.866
901-896		.896
901-937	15/16 in	.937
901-1.000	1 in	1.000
901-1.125	1 1/8 in	1.125
901-1.375	1 3/8 in	1.375
901-1.500	1 1/2 in	1.500
901-1.625	1 5/8 in	1.625
901-2.039		2.039
901-2.750	2 3/4 in	2.750
901-5.000	5 in	5.000
901-6.500	6 1/2 in	6.500

Please contact Pressure Seals for sizes not listed.

Polished Balls

Because of properties inherent in some rubber materials, they cannot be successfully ground. As an alternative, PSI uses a method we call "Polishing" to provide a surface finish that is an improvement over standard molded balls. In many cases the parting line can be reduced significantly using this process. All of our balls under 1/2" can be polished successfully. Larger balls can also be improved by polishing. This Polishing process is also an option to avoid expensive grinding fixtures for your custom size requirements.