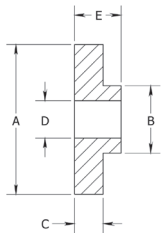


# Sorbothane® Bushings & Washers



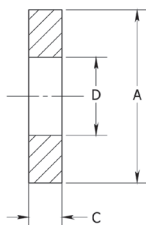
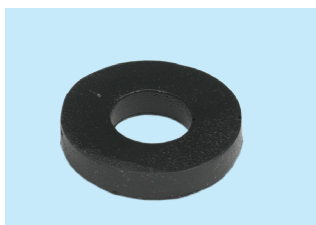
Sorbothane® Bushings are designed to isolate vibration and absorb shock. Using two bushings together or a bushing and washer(s), you can create a floating bolt that isolates the unit from any metal-to-metal contact. Different durometers allow for different spring rates. Load ratings assume a 10%-20% deflection of the material. This deflection is achieved by a combination of system weight and torquing of the connecting bolts. Do not over torque the bolts as this defeats the intended vibration isolation and shortens bushing life. Use a high-quality (thread deforming) lock nut. Bushings may be used in tension connections.

## BUSHINGS



PART NUMBER	DIMENSIONS					DURO	RATED LOAD (lbs)	NOTES
	A (DIA)	B	C	D	E			
0576170-30-10	0.72	0.50	0.15	0.28	0.22	30	3 - 8	
0576170-50-10	0.72	0.50	0.15	0.28	0.22	50	4 - 11	
0576170-70-10	0.72	0.50	0.15	0.28	0.22	70	8 - 21	
0510005-30-10	1.00	0.46	0.19	0.28	0.31	30	7 - 18	
0510005-50-10	1.00	0.46	0.19	0.28	0.31	50	15 - 25	
0510005-70-10	1.00	0.46	0.19	0.28	0.31	70	20 - 42	
0510002-30-10	1.00	0.45	0.19	0.25	0.60	30	13 - 22	
0510002-50-10	1.00	0.45	0.19	0.25	0.60	50	22 - 33	
0510002-70-10	1.00	0.45	0.19	0.25	0.60	70	28 - 44	

## WASHERS



PART NUMBER	DIMENSIONS					DURO	RATED LOAD (lbs)	NOTES
	A (DIA)	B	C	D	E			
0510020-30-10	0.50		0.13	0.13		30	0.40 - 0.75	
0510020-50-10	0.50		0.13	0.13		50	1 - 2	
0510020-70-10	0.50		0.13	0.13		70	4 - 10	
0510001-30-10	1.00		0.19	0.45		30	1 - 2	
0510001-50-10	1.00		0.19	0.45		50	3.5 - 8	
0510001-70-10	1.00		0.19	0.45		70	15 - 35	
0510045-30-10	1.25		0.38	0.50		30	2 - 3	
0510045-50-10	1.25		0.38	0.50		50	4.5 - 9	
0510045-70-10	1.25		0.38	0.50		70	20 - 40	
0510050-30-10	1.50		0.50	0.50		30	2 - 4	
0510050-50-10	1.50		0.50	0.50		50	6 - 14	
0510050-70-10	1.50		0.50	0.50		70	30 - 65	

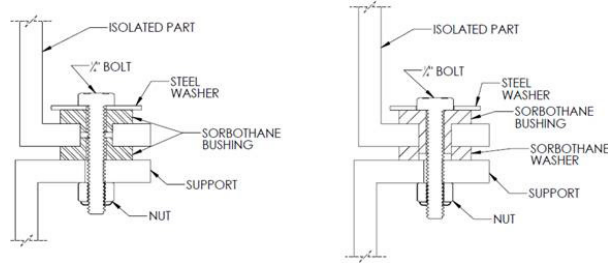
# WASHERS

with PSA



PART NUMBER	DIMENSIONS					DURO	RATED LOAD (lbs)	NOTES
	A (DIA)	B	C	D	E			
0510003-30-10	1.00		0.19	0.45		30	1 - 2	
0510003-50-10	1.00		0.19	0.45		50	3.5 - 8	
0510003-70-10	1.00		0.19	0.45		70	15 - 35	
0510051-30-10	1.50		0.50	0.50		30	2 - 4	
0510051-50-10	1.50		0.50	0.50		50	6 - 14	
0510051-70-10	1.50		0.50	0.50		70	30 - 65	

## How to apply Bushings & Washers



# Sorbothane® Material Properties

## Material Properties of Sorbothane®

PROPERTY	DUROMETER (SHORE 00)			UNITS	NOTES
	30	50	70		
Tensile Strength at Break	26	107	191	psi	ASTM D 412-06a
Elongation at Break	334	765	388	%	ASTM D 412-06a
Compression Set	10	3	2	%	ASTM D 395
Bulk Modulus	4.5	5.0	4.3	gPascal	
Density	83	84	85	lb/ft <sup>3</sup>	ASTME D 792-13
Optimum Performance Temperature Range	-20° to +140°	-20° to +150°	-20° to +160°	°F	Reduced strength and damping up to 200°F. Increased spring rate down to glass transition temperature.
Fungal Resistance	No Growth				ASTM G 22

## Material Properties of Water Resistant Sorbothane®

PROPERTY	DUROMETER (SHORE 00)			UNITS	NOTES
	30	50	70		
Tensile Strength at Break	130	131	170	psi	ASTM D 412-06a
Elongation at Break	342	219	154	%	ASTM D 412-06a
Compression Set	10	2	3	%	ASTM D 395
Bulk Modulus	4.25	3.99	4.14	gPascal	
Density	78.78	79.78	79.60	lb/ft <sup>3</sup>	ASTME D 792-13
Optimum Performance Temperature Range	-20° to +140°	-20° to +150°	-20° to +160°	°F	Reduced strength and damping up to 200°F. Increased spring rate down to glass transition temperature.
Fungal Resistance	No Growth				ASTM G 22

Sorbothane® meets or exceeds the following compliance policies: RoHS • REACH • PROP 65 • Conflict Materials • Latex Free