

Test Value Tables

Value Grade ⁽¹⁾	Density ⁽²⁾ g/cc (lbs./cu.ft.)	Tensile Strength ⁽³⁾ MPa (psi)	Compressibility ⁽⁴⁾ (%)	Recovery ⁽⁵⁾ (%)	Creep Relaxation ⁽⁶⁾ (%)	Compressive Strength ⁽⁷⁾ MPa (psi)
CMP-4000	1.55 (97)	18.60 (2700)	5 - 15	50	15	345 (50000)
CMP-4200	1.55 (97)	12.00 (1740)	7 - 17	50	15	345 (50000)
HFL-781	1.63 (102)	13.90 (2016)	10 - 20	30	18	155 (22500)
HFL-971	1.50 (93.5)	27.50 (3985)	7 - 17	40	16	379 (55000)
MP-15	1.54 (96)	10.94 (1500)	13 - 25	50	15	131 (19000)
MP-2N	1.35 (84)	8.28 (1200)	13 - 25	35	30	124 (18000)
PF-4N	1.44 (90)	8.97 (1300)	12 - 20	45	25	345 (50000)
PF-4S	1.44 (90)	8.62 (1250)	9 - 23	45	20	483 (70000)
VB-72	1.47 (92)	15.86 (2300)	5 - 20	40	22	466 (67500)
N-8092	1.20 (75)	11.03 (1600)	15 - 30	35	35	179 (26000)

Value Grade ⁽¹⁾	Coefficient of Friction ⁽⁷⁾		Hot Compression Test ⁽⁷⁾		Nitrogen Seal ⁽⁷⁾ 1 Bar, 9MPa Clamp cc/min	Fluid Seal ⁽⁷⁾		Median Pore Dia ⁽⁷⁾ (microns)
	Aluminum	Iron/steel	Cold (%)	Hot (%)		Oil @ 4 Bar MPa (psi)	A/F @ 1 Bar MPa (psi)	
CMP-4000	0.394	0.588	5.8	5.2	0.033	4.8 (700)	2.1 (300)	0.055
CMP-4200	0.394	0.588	5.8	5.2	0.033	4.8 (700)	2.1 (300)	0.055
HFL-781	0.293	0.324	3.8	8.7	0.130	3.4 (500)	6.9 (1000)	0.085
HFL-971	0.231	0.308	6.3	2.2	0.122	8.3 (1200)	4.2 (600)	0.082
MP-15	0.288	0.382	9.5	6.7	0.033	3.4 (500)	3.4 (500)	0.061
MP-2N	0.356	0.450	12.1	9.5	0.333	6.9 (1000)	6.9 (1000)	0.154
PF-4N	0.378	0.578	9.8	6.7	0.150	17.2 (2500)	6.9 (1000)	0.068
PF-4S	0.398	0.619	9.3	5.6	0.388	13.8 (2000)	13.8 (2000)	0.060
VB-72	0.377	0.527	8.0	6.2	0.203	17.2 (2500)	4.2 (600)	0.068
N-8092	0.381	0.416	14.5	21.6	1.333	17.2 (2500)	15.5 (2250)	0.365

Typical values shown – not to be used for establishing specifications.

(1) Note: Test values in this table are for comparative use only. They are not valid purchase specifications.

(2) ASTM F1315

(3) ASTM F152

(4) ASTM F36

(5) ASTM F38

(6) ASTM F1574

(7) ISI test procedure. Consult Application Engineering for additional details.