



MECHANICAL PROPERTIES



PREMIUM PERFORMANCE **POLYETHER**

MECHANICAL PROPERTIES	ASTM TEST METHOD	PP1501	PP1601	PP1701	PP1801	PP1901	PP1502	PP1602	PP1702	PP1802
HARDNESS										
DUROMETER	D2240	50A	60A	70A	80A	90A	50D	60D	70D	82D
TENSILE MODULUS, PSI										
100% EXT	D412	230	335	349	780	1042	1966	2887	4991	N/A
300% EXT	D412	395	535	739	1400	1932	3970	5911	N/A	N/A
ULTIMATE TENSILE STRENGTH PSI	D412	1700	2550	2255	5300	6063	6297	6273	7263	8200
ULTIMATE ELONGATION %	D412	500	555	504	580	501	385	313	247	20
YOUNG'S MODULUS PSI		N/A	N/A	1212	4700	5111	11367	19271	42306	N/A
TEAR STRENGTH, PLI										
DIE C	D624	155	220	138	270	400	488	621	1046	N/A
SPLIT TEAR	D470	18	40	31	63	76	106	133	231	N/A
COMPRESSION / FLEXURE (PSI)										
METHOD B, 25%	D575	167	178	269	820	939	1793	2718	5032	N/A
REBOUND %	D2632	62	63	15	64	50	51	55	66	N/A
COMPRESSION SET		4	13	51	28	20	26	32	N/A	N/A
FLEXURAL MODULUS @ 5% STRESS	D790	N/A	N/A	N/A	N/A	N/A	N/A	N/A	96000	320,000
BRITTLE TEMP										
(°C/°F)	DMA (TAN DELTA)	N/A	N/A	N/A	-71 / -96	-51 / -60	-55 / -67	-56 / -69	-56 / -69	N/A
THERMAL EXPANSION										
in/(in·°F)		N/A	N/A	1.05E-4	1.04E-4	1.04E-4	1.12E-4	9.8E-05	1.02E-4	N/A
WATER ABSORPTION										
FRESH (SALT)		N/A	N/A	1.22 (1.20)	1.23 (1.31)	1.5 (1.49)	1.54 (1.45)	1.58 (1.40)	1.57 (1.41)	N/A
CURED DENSITY										
G/CM³		N/A	N/A	1.04	1.07	1.09	1.14	1.16	1.19	1.2
MAX OPERATING TEMPERATURE (F)										
(F*)		170	170	170	170	170	170	170	170	170
SHELF LIFE										
YEARS		20	20	20	20	20	20	20	20	20

Note: The above materials are a small segment of the materials we offer. Additional additives and curatives can be used to enhance performance. If you do not see a suitable material contact a member of our team.

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Univacco Exhibit 1018
Univacco v. Leonard Kurz
Case PGR2006-00011