

C.U.E., Inc.

Polyurethane Materials Technical Data Sheet

Typical Properties of Compound No.	PO-645	PO-655	PO-670	PO-650	CU-290	PO-652	PO-658
Shore Durometer (ASTM D2240-64T)	45 A	60 A	70 A	86A	90 A	93 A	58 D
Compression Set: (ASTM D395-61, Method B) 22 Hrs. @ 158 F	15% Max	30% Max	35% Max	45% Max	30% Max	25% Max	35% Max
Ultimate Tensile Strength (ASTM D412-61T)	2300 psi	3000 psi	4000 psi	6000 psi	6500 psi	5000 psi	5000 psi

Tensile Modulus (ASTM D412-61 T)

@ 50% Elongation	85 psi	50 psi	400 psi	500 psi	900 psi	1100 psi	2300 psi
@ 100 % Elongation	120 psi	115 psi	500 psi	700 psi	1100 psi	1600 psi	2600 psi
@ 200% Elongation	170 psi	250 psi	850 psi	985 psi	1650 psi	1900 psi	3000 psi
@ 300 % Elongation	190 psi	300 psi	900 psi	1600 psi	2200 psi	2300 psi	3500 psi
Elongation at Break (ASTM D-412-61T)	700%	625%	550%	550%	475 %	550%	400%
Tension Set at Break (ASTM D-412-61T)	--	5%	5%	25%	--	35%	30%

Tear Strength (lbs./In.)

Trousers Die (ASTM D1938)	45	40	200	250	230	400	250
Die C (ASTM D624)	100	240	400	470	500	630	620
Split Tear (ASTM D470)	20	25	70	140	110	200	220

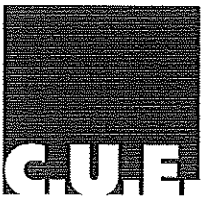
Compression-Deflection (Load Carrying Ability) ASTM D575-46, Method A

5%	20 psi	50 psi	65 psi	200 psi	150 psi	450 psi	700 psi
10%	40 psi	110 psi	130 psi	375 psi	350 psi	750 psi	1150 psi
25%	100 psi	300 psi	375 psi	1000 psi	1000 psi	1900 psi	3000 psi

Abrasion: (Tabor Test: H18 wheel, mg/1000 cycles) (NBS Test: % Rubber Standard)

Tabor ASTM D3489-85(90)	17	17	23	15	--	44	42
NBS ASTM D1630-83	165	180	205	250	140	385	222

Physical property data is based on standard laboratory tests and conditions and, therefore, does not necessarily duplicate real-work conditions. Data is not intended to and does not create any warranties, either expressed or implied. Potential users should perform independent testing to determine the suitability of materials for their intended application.



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