

PLASTRUTHANE



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PHYSICAL PROPERTIES

Plastruthane offers excellent performance in dynamic loading, shock absorption, and water environments. Plastruthane compounds excel in abrasion and cut resistance performance. Plastruthane is available in hardnesses from 80 A to 75 D. Plastruthane is not suited for applications involving solvents or petroleum based oils. Maximum service temperature is 200 F. Typical applications are high impact and sharp abrasion areas where other products cannot maintain their physical properties.

Property	Method	Unit	80	90	95		
Hardness A			80	90	95		
Hardness D					50	60	75
100% Modulus	ASTM D-412	psi	680	1000	2200	3700	5000
300% Modulus	ASTM D-412	psi	1050	1700	4100	6500	
Tensile Strength	ASTM D-412	psi	3000	4100	6500	7000	7500
Ultimate Elongation	ASTM D-412	%	550	450	350	310	230
Split Tear	ASTM D-470	PL1	65	65	125	115	145
Die C Tear	ASTM D-624	%		370	500	630	950
Resilience	ASTM D-2632	%	57	50	42	42	
Compression Set	ASTM D-385-B	%	29	25	32	28	
Compressive Modulus 5%	ASTM D-575	psi	135	210	500	1000	2300
Compressive Modulus 10%	ASTM D-575	psi	220	350	840	1600	3950
Compressive Modulus 15%	ASTM D-575	psi	308	490	1200	2200	5100
Compressive Modulus 20%	ASTM D-575	psi	415	680	1650	3000	6000
Compressive Modulus 25%	ASTM D-575	psi	572	940	2100	4000	8000
Brittle Point	ASTM D-746	F		-94	-94	-94	-94
Specific Gravity	ASTM D-792			1.08	1.13	1.16	1.2

*All values are determined on specimens prepared according to ASTM 1248-84 "Standard Specifications for Polyethylene Plastic Molding and Extrusion Materials". Nominal values should not be interpreted as specifications.

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