

Kryptane® Polyurethane Physical Properties



Please note: As with all polyurethane products, application and field testing by the user are necessary to determine suitability of the selected product or product combination for each specific application.

ETHER

Test Category	ASTM #	62A Ether	74A Ether	80A Ether	90A Ether
100% Modulus (psi)	D412	352	534	645	1216
300% Modulus (psi)	D412	602	988	1234	2386
500% Modulus (psi)	D412	1591	2502	2849	4090
Tensile Strength (psi)	D412	3333	4264	4501	4605
Elongation at Break (%)	D412	800	600	650	600
Trouser Tear (pli)	D624	99	122	180	127
Die. C Tear (pli)	D624	235	321	361	465
Bayshore Rebound	D2632	77	80	77	60
Compression Set B 22 hr. @ 70°C	D395	48	43	23	26
DIN Abrasion	D5963				
Relative Vol Loss (mm ³)		45	39	48	48
Abrasion Resistance Index (ARI-%)		329	377	309	311
Coefficient of Friction	D1894-14				
Static Coefficient of Friction		1.46	1.27	0.757	0.579
Kinetic Coefficient of Friction		1.27	0.956	0.688	0.539

ESTER

Test Category	ASTM #	63A Ester	69A Ester	83A Ester	93A Ester	69A Ester (FRAS)	83A Ester (FRAS)
100% Modulus (psi)	D412	372	400	800	1390	527	630
300% Modulus (psi)	D412	597	708	1264	2250	869	1023
500% Modulus (psi)	D412	1125	1947	3413	5500	1387	1690
Tensile Strength (psi)	D412	2279	4865	6600	7500	2513	3378
Elongation at Break (%)	D412	575	600	600	525	645	646
Trouser Tear (pli)	D624	68	157	250	460	197	136
Die. C Tear (pli)	D624	248	248	450	598	332	379
Bayshore Rebound	D2632	53	51	53	39	56	49
Compression Set B 22 hr. @ 70°C	D395	29	23	19	22		28
DIN Abrasion	D5963						
Relative Vol Loss (mm ³)		59	49	44	52	68	77
Abrasion Resistance Index (ARI-%)		253	303	340	285	230	191
Coefficient of Friction	D1894-14						
Static Coefficient of Friction		1.42	0.96	0.524	0.469	0.716	0.557
Kinetic Coefficient of Friction		1.41	1.33	0.827	0.389	0.647	0.462

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