



LAB REPORT

Kryptane® Polyurethane Typical Physical Properties

		KRYPTANE POLYURETHANE FORMULATION						
TEST CATEGORY	ASTM #	AR-5801	KR-7402-X	KR-A8008	KR-A8305	KR-A9001	KR-A9331	AR-9601
COLOR	NA	CLEAR	RED	RED	GREEN	RED	BLACK	WHITE
DUROMETER	D2240	58A	74A	80A	83A	90A	93A	96A
100% MODULUS	D412	240 PSI	502 PSI	550 PSI	800 PSI	1216 PSI	1390 PSI	2035 PSI
300% MODULUS	D412	453 PSI	1035 PSI	1200 PSI	1125 PSI	2386 PSI	2250 PSI	2314 PSI
500% MODULUS	D412	910 PSI	2353 PSI	2000 PSI	NA	NA	5500 PSI	NA
TENSILE STRENGTH	D412	3333 PSI	4831 PSI	3500 PSI	6600 PSI	3696 PSI	7500 PSI	2314 PSI
ELONGATION	D412	800%	600%	650%	600%	425%	550%	300%
TEAR STRENGTH (SPLIT)	D1938	89 PLI	100 PLI	180 PLI	250 PLI	104 PLI	460 PLI	124 PLI
TEAR STRENGTH (DIE. C)	D624	158 PLI	NA	NA	450 PLI	278 PLI	530 PLI	329 PLI
REBOUND RESILIENCE	NA	77%	80%	77%	53%	NA	35%	NA
COMPRESSION SET Method B, 22 hr. @ 77°C	D395	53%	NA	23%	32%	NA	30%	NA

PERFORMANCE BASED POLYMERS

AR-5801	Used for fine particle abrasion with minimal impact. An extremely soft, gummy material that works well in wet environments. Currently used in squeegee and low pressure gasket type applications.
KR-A7402-X	Super high resilience type material. Specifically developed for aggressive, wet, sliding abrasion coupled with light impact (1/2" minus material). Currently used in pump, hydrocyclone and float cell liners.
KR-A8008	Less resilient than our KR-A7402-X, with higher tear strength. Will handle more aggressive impact (3/4" minus material). Used for fine particle, shallow angle abrasion. Excellent for grain handling, sand blast curtains, and pump liners.
KR-A8305	Used for coarser particles, higher angle of impingement wear problems with 2" minus materials. This formulation has excellent cut and tear resistance. Common uses include belt scrapers, chute liners, and mixer liners.
KR-A9001	Used for fine particle abrasion associated with sticking and hang-up problems. This material has the lowest coefficient of friction of any of the typical Kryptane materials. Typical applications include classifier shoes and pipe elbows.
KR-A9331	Used for the toughest impact applications handling up to 5" minus materials. This material exhibits our highest tensile and tear strength. Typical applications include drag line bucket iners, impact bars, grizzlies, and belt scrapers.
AR-9601	Used for high pressure, fine particle abrasion in aquatic environments. A structurally rigid material currently used in filtration and wear plate applications.

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