Datasheet - Engineered Polyurethane

Polyurethane Formulation - K-Superskirt® | K-Superline® | K-Snap-Loc®

Formula	ASTM	60 Duro	69 Duro	RU 69 (FRAS)	R80 Duro	G83 Duro	RU 83 (FRAS)	R90 Duro	B93 Duro
Hardness Durometer (shore A+/-5)		60	69	69	80	83	83	90	93
100% Modulus (MPa)	D412	1.7	2.76	3.63	4.45	5.52	4.34	8.38	9.58
300% Modulus (MPa)	D412	2.5	4.88	5.99	8.51	8.71	7.05	16.45	15.51
500% Modulus (MPa)	D412	18.8	13.42	9.56	19.64	23.53	11.65	28.2	37.92
Tensile Strength (MPa)	D412	36	33.54	17.33	31.03	45.51	23.29	31.75	51.71
Elongation at Break (%)	D412	680	600	645	650	600	646	600	525
Trouser Tear (kN/m)	D624	21	27.49	34.5	31.52	43.78	23.82	22.24	80.56
Die C Tear (kN/m)	D624	45	43.43	58.14	63.22	78.81	66.37	81.43	104.73
Bayshore Rebound	D2632	46	51	56	77	53	49	60	39
Compression Set B 22 hr @ 70°C (%)	D395	62	23	28	23	19	28	26	22
DIN Abrasion – Relative Vol Loss (mm^3)	D5963	37	49	68	48	44	77	48	52
Abrasion Resistance Index (ARI, %)		1290	303	230	309	340	191	311	285
Static Coefficient of Friction	D1894-14	0.319	0.96	0.716	0.757	0.524	0.557	0.579	0.469
Kinetic Coefficient of Friction	D1894-14	0.337	1.33	0.647	0.688	0.827	0.462	0.539	0.389

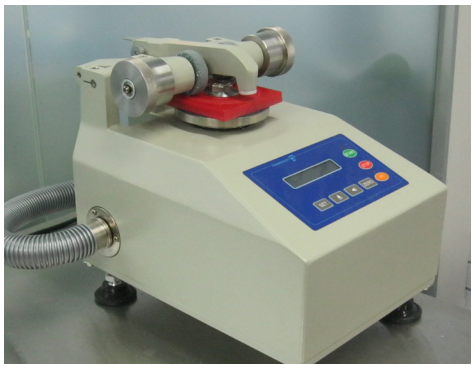

Photo: Taber Abrasion testing a specimen of K-Superline® under weighted abrasive wheels. The Abrasion Resistance is calculated as loss in weight per abrasion cycle.

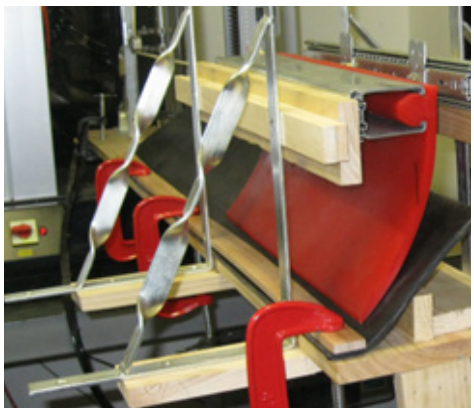

Photo: Drag test equipment used with K-Snap-Loc® Dust Seal System, a conveyor skirting product made from R69 Duro polyurethane formula.

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40 YEARS OF INNOVATION

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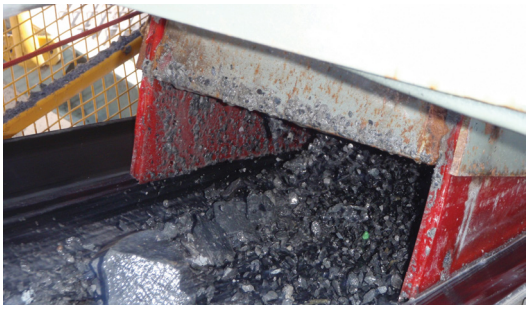
Performance Based Polymers

Y60 Duro

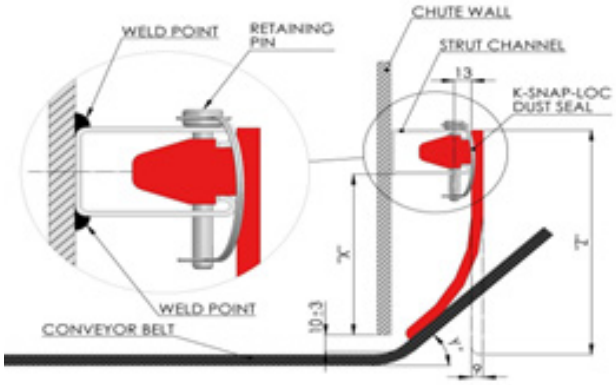
Highly versatile and effective in containing conveyed materials. The engineered polyurethane has been designed to be more belt friendly, has enhanced abrasion resistance and softer durometer.

R69 Duro

Designed to seal conveyor transfer points in many environments from wet clay to iron ore. The engineered polyurethane is highly durable and lasts 8 to 10 times longer than rubber.



K-Superskirt® Engineered Polyurethane



K-Snap-Loc® Dust Seal System

R80 Duro

Will handle more aggressive impact (3/4” minus material). Used for fine particle, shallow angle abrasion. Excellent for grain handling, sand blast curtain, and pump liners.

G83 Duro

Used for coarser particles, higher angle of impingement wear problems with 2” minus materials. This formula has excellent cut and tear resistance. Common uses include belt scrapers, chute liners, and mixer liners.

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RU 69 (FRAS) / RU 83 (FRAS)

A formula that meets underground FRAS requirements and is excellent for FRAS rated belt cleaners and chute liners.

R90 Duro

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.

B93 Duro

Used for the toughest impact applications handling up to 5” minus materials. This material exhibits our highest tensile strength and tear strength.

Typical applications include drag line bucket inners, impact bars, grizzlies and belt scrapers.

B93 with ceramic application

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