



BLACK 93° SHORE A ESTER POLYURETHANE

Polyurethane resistant against high sliding, grooving and impact wear suitable for very rough and sharp products. Has a very low coefficient of friction. This version is thus extremely suitable for angular, sharp, rough products that need to enter at a difficult angle and need to flow through.

TECHNICAL SPECIFICATIONS KRYPTANE® BLACK 93° SHORE A

	Unit	Value
Mechanical properties		
Hardness shore A (+/-5°)	°	93°
100% elasticity modulus	N/mm ²	9.58
300% elasticity modulus	N/mm ²	15.51
500% elasticity modulus	N/mm ²	37.92
Tensile strength (break)	N/mm ²	51.71
Angle tear strength (break)	N/m	67.57
Trouser tear strength (break)	N/m	51.97
Elongation	%	550
Elasticity	%	35
Compression set	%	30
Abrasion loss Din 53516	mm ³	42
Density	kg/dm ³	1.21
Coefficient of friction dry		0.19
Temperature resistance		
Max. operating temperature	°C.	100°
Min. operating temperature	°C.	-40°
Combustion temperature	°C.	430°
Flashpoint	none	
Melting point	°C.	200°

Chemical properties

Good resistance to low acid concentrations and lye, food additives, fats, formwork oil, ozone and UV

Electrical resistance - Flame-retardant - Food quality FDA

Static electricity - miniscule / Flame-retardant ISO 340 - yes / Food quality FDA - yes

Various polyurethane test rigs



Tensile strength



Angle tear strength



Trouser tear strength



Resilience/Rebound



Abrasion



Available from stock in standard sheet dimensions 3050 x 1220 mm

- Type PL in 8, 12, 18 and 25-mm-thick PU (Type PL = without carrier, full PU)
- Type FB in 8-mm-thick PU (Type FB approx 1.5-mm-thick fabric layer for adhesive fixing) (total thickness incl carrier 9.5 mm)
- Type MB in 8-mm-thick PU (Type MB = approx 1.5-mm-thick integrated stretched metal for fixing with bolts) (Tolerance at a polyurethane thickness of +/-1.3 mm)

Advantages

- extreme abrasion-resistance
- extremely high resistance against strong sliding, cutting and impact wear
- highly noise attenuating
- excellent product through flow

Applications

Chutes and vibration chutes, chain conveyor base plates, crushers, conveyor belt supports and scrapers, stone drums, road construction machinery, coal and ore processing systems etc.



Not binding, subject to change. Version 2017 / 1.1