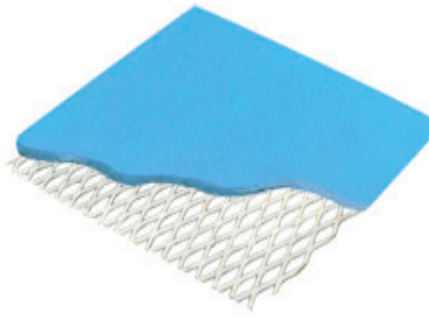


# ANTI-STATIC FLAME RETARDANT (FRAS) POLYURETHANE



## TECHNICAL SPECIFICATIONS KRYPTANE® FRAS 83° SHORE A

	Unit/testing standard	Mean value
<b>Mechanical properties</b>		
Hardness Shore A (+/-5°)	°	83°
100% modulus	N/mm <sup>2</sup>	5,52
300% modulus	N/mm <sup>2</sup>	8,72
500% modulus	N/mm <sup>2</sup>	23,53
Tensile strength (break)	N/mm <sup>2</sup>	45,51
Angle tear strength (break)	N/m	50,84
Trouser tear strength (break)	N/m	28,25
Elongation	%	600
Rebound resilience	%	53
Compression set	%	32
Abrasion DIN 53516	mm <sup>3</sup>	43
Cured density	kg/dm <sup>3</sup>	1.21
Coefficient of Friction dry		0.27
<b>Temperature resistance</b>		
Max. operating temperature	°C.	80°
Min. operating temperature		-30°
Ignition temperature	°C.	430°
Flame point	non	
Melt temperature	°C.	200°

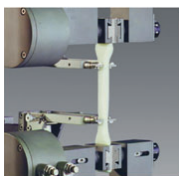
### Chemical properties

Resistant to oils and fats, Ozone and UV resistant

Surface resistivity - Flame retardant - Food grade quality FDA

Surface resistivity - 53482 < 3 x10<sup>8</sup>Ω / Flame retardant ISO 340 - yes / Food grade quality FDA - no

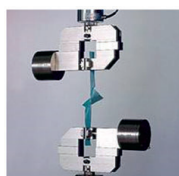
Some polyurethane test arrangements



Tensile strength



Angle tear strength



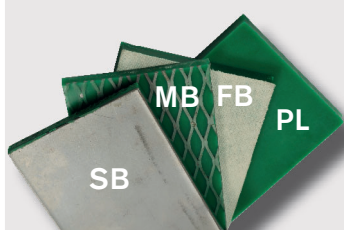
Trouser tear strength



Rebound resilience



Abrasion



### Kryptane Polyurethane backings

- Type PL plain backing
- Type FB approx. 1,5 mm textile, for glueing.
- Type MB with 1,5 mm integrated stretched metal for bolting
- Type SB with 1,8 mm solid metal back for bolting

KRYPTANE®

## BLEU FRAS 83°SHORE A

FLAME-RETARDANT, ANTI-STATIC

Kryptane® bleu FRAS (flame-retardant, anti-static ) nen-en 1127-1: 2019 suitable for hazardous areas like coal conveyor applications, ATEX areas with combustible dust risks. its unique properties self-extinguishes and meets the electrical resistance requirements.

Available for all our belt cleaning systems, replacement blades and skirting solutions.

### Available standard sheet dimensions 3050x1220 mm

- Type PL in 8, 10, 12 and 18 mm thick PU
- Type FB in 5, 6, 8, 12 and 18 mm thick PU (total thickness incl. backing 6,5, 7,5, 9,5, 13,5 and 19,5 mm.)
- Type MB in 6 and 8 mm thick PU
- Type SB in 6 and 8 mm thick PU (total thickness incl. backing 8 and 10 mm. PU tolerance +/-,1,3 mm)

### Advantages

- Flame-retardant
- Anti-static
- No moisture absorption
- Sound reducing
- Low-stick quality
- Good sliding properties
- Long service life
- No thermal expansion

### Applications

Hoppers, bunkers, elevator head, boot and in-and outlets, pipework systems, chutes and vibration chutes,skirting for conveyor belts, concrete mixers, flop-gates, etc.



Not legally binding - subject to change and terms  
Version 2020 / 1.1

 KRYPTANE®

