



## 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 |
|--|--------------------|-------|
| <b>Mechanical properties</b>   |                    |       |
| Hardness shore A (+/-5°)   | °                  | 93°   |
| 100% elasticity modulus  | N/mm <sup>2</sup>  | 9.58  |
| 300% elasticity modulus  | N/mm <sup>2</sup>  | 15.51 |
| 500% elasticity modulus  | N/mm <sup>2</sup>  | 37.92 |
| Tensile strength (break)   | N/mm <sup>2</sup>  | 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 <sup>3</sup>    | 42    |
| Density  | kg/dm <sup>3</sup> | 1.21  |
| Coefficient of friction dry  |                    | 0.19  |
| <b>Temperature resistance</b>  |                    |       |
| Max. operating temperature   | °C.                | 100°  |
| Min. operating temperature   | °C.                | -40°  |
| Combustion temperature   | °C.                | 430°  |
| Flashpoint   | none               |       |
| Melting point  | °C.                | 200°  |
| <b>Chemical properties</b>   |                    |       |
| 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 - none / 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