Technical Data Sheet

Sustakon® black

PK

Typical characteristics

- Good resilience
- Low moisture absorption
- The wear rate is incredibly low in comparison with other polymers when it is used with friction partners made of the same material
- Remains accurate to size and retains its dimensional stability
- High abrasion resistance
- Good impact strength

Typical industries

- Mechanical Engineering Industry
- Aerospace
- Oil and Gas
- Topside
- Subsea
- Downhole
- Pipelines

	Test method	Unit	Guideline value
General properties			
Density	DIN EN ISO 1183-1	g / cm^3	1,25
Water absorption	DIN EN ISO 62	%	0,4
Flammability (Thickness 3 mm / 6 mm)	UL 94		HB / HB
Mechanical properties			
Yield stress	DIN EN ISO 527	MPa	70
Elongation at break	DIN EN ISO 527	%	70
Tensile modulus of elasticity	DIN EN ISO 527	MPa	1700
Notched impact strength	DIN EN ISO 179	kJ / m^2	12
Shore hardness	DIN EN ISO 868	scale D	78
Thermal properties			
Melting temperature	ISO 11357-3	°C	225
Coefficient of linear thermal expansion	DIN 53752	10^{-6} / K	110
Service temperature, long term	Average	°C	-30 ... 100
Service temperature, short term (max.)	Average	°C	150
Heat deflection temperature	DIN EN ISO 75, Verf. A, HDT	°C	83

	Test method	Unit	Guideline value
Electrical properties			
Volume resistivity	DIN EN 62631-3-1	Ω * cm	10^{13}
Surface resistivity	DIN EN 62631-3-2	Ω	10^{13}