

# Technical data sheet

## SUSTAKON® (Polyketone PK)

### Product characteristics

- Low moisture absorption
- Very high abrasion resistance & low wear rate
- High impact strength

### Typical field of application

- Mechanical engineering
- Shipbuilding & seal applications
- Aircraft construction

Physical Properties	tested method	unit	value
Density	ASTM D792	g/cm <sup>3</sup>	1.24
Mold shrinkage	ASTM D955	%	1.8 -2.0
Water content (23° C, 60%RH, Eq.)	ASTM D570	%	0.5
Mechanical Properties	tested method	unit	value
Tensile strength	ASTM D638	Kg/cm <sup>2</sup>	620
Nominal strain at break	ASTM D638	%	>300
Flexural strength	ASTM D790	Kg/cm <sup>2</sup>	620
Flexural modulus	ASTM D790	Kg/cm <sup>2</sup>	16,000
Charpy notched impact strength	ASTM D256	Kgcm/cm <sup>2</sup>	18
Rockwell hardness	ASTM D785	-	107
Thermal Properties	tested method	unit	value
Melting temperature	ASTM D1525	°C	220
Melt flow rate	ASTM D1238	g/10min	6
Deflection temperature	ASTM D648		
HDT 0.45MPa (4.6Kg/cm <sup>2</sup> )		°C	210
HDT 1.82MPa (4.6Kg/cm <sup>2</sup> )		°C	105
Flammability	UL94	-	HB
Electrical Properties	tested method	unit	value
Volume resistivity	ASTM D257	Ω *cm	10 <sup>15</sup>
Dielectric Strength	ASTM D149	KV/mm	17

The data stated above are average values ascertained by statistical tests on a regular basis.

The data above are provided purely for information and shall not be regarded as binding unless expressly agreed in a contract of sale.

(\*) literature values / depends on application