



## Material Datasheet

### Unfilled PEEK Grade SN-4000 OD < 300 mm

PDS nr.: PDS-IM-200, edition 13/08/2018  
Filler content: -  
Color: Tan  
Test sample: Compression moulded material,  $\varnothing 72 \times \varnothing 45\text{mm}$   
QC responsible: Ruben Denteneer

Density	ISO 1183 (23°C)	1,32	gr/cm <sup>3</sup>
Moulding direction test samples (MD)			
Tensile Strength	ISO 527 (23°C)	98	N/mm <sup>2</sup>
Elongation @ max stress	ISO 527 (23°C)	5,8	%
Elongation @ break	ISO 527 (23°C)	8-12	%
Compressive strength at 1% deformation		130	N/mm <sup>2</sup>
Shore D hardness		85	
Min. continuous operating temperature		-30	°C
Max. continuous operating temperature		260	°C
Max. operating temp.		300	°C
Thermal expansion up to 150°C		5,10	1/K10 <sup>-5</sup>
Water absorption	ISO 62 (50%RH, 23°C)	0,20	%
Coëfficiënt of friction at steel (Dynamic – 23°C)		0,35	
Coëfficiënt of friction at steel (Dynamic – 200°C)		0,78	

The raw material (Viktrex® 450) is approved acc. to FDA 21 CFR 177.2415