



## Material Datasheet

### PEEK Lubricated Grade LN-4106

PDS nr.: PDS-IM-202, edition: 13/08/2018  
Filler content: 6% PTFE  
Color: Tan  
Test sample: Compression moulded material,  $\varnothing 200 \times \varnothing 150$ mm  
QC responsible: Ruben Denteneer  
MTD 03 Revision date 24/10/2016

Density	ISO 1183 (23°C)	1,36	gr/cm <sup>3</sup>
Moulding direction test samples (MD)			
Tensile Strength	ISO 527 (23°C)	84	N/mm <sup>2</sup>
Elongation @ max stress	ISO 527 (23°C)	5,6	%
Elongation @ break	ISO 527 (23°C)	8-12	%
Compressive strength at 1% deformation		107	N/mm <sup>2</sup>
Shore D hardness		84	
Min. continuous operating temperature		-30	°C
Max. continuous operating temperature		260	°C
Max. operating temp.		300	°C
Thermal expansion up to 150°C		5,80	1/K10 <sup>-5</sup>
Water absorption	ISO 62 (50%RH, 23°C)	0,16	%
Coëfficiënt of friction at steel (Dynamic – 23°C)		0,22	
Coëfficiënt of friction at steel (Dynamic – 200°C)		0,28	

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