



Material Datasheet

PEEK Lubricated Grade LB-4110

PDS nr.: PDS-IM-203, edition: 13/08/2018
Filler content: 10% PTFE
Color: Blue
Test sample: Compression moulded material, $\varnothing 200 \times \varnothing 150$ mm
QC responsible: Ruben Denteneer

Density	ISO 1183 (23°C)	1,37	gr/cm ³
Moulding direction test samples (MD)			
Tensile Strength	ISO 527 (23°C)	84	N/mm ²
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 ²
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 ⁻⁵
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 (Victrex® 450) is approved acc. to FDA 21 CFR 177.2415