



## Material Datasheet

### PEEK Bearing Grade BG 4130 Moulded material

PDS nr.: PDS-IM-205, edition: 13/08/2018  
Filler content: 30% Carbon fiber, Color: Dark Grey/Black  
Test sample: Moulded material,  $\varnothing 105 \times \varnothing 80$ mm  
QC responsible: Ruben Denteneer

Density	ISO 1183 (23°C)	1,43	gr/cm <sup>3</sup>
Extrusion direction test values			
Tensile Strength	ISO 527 (23°C)	84	N/mm <sup>2</sup>
Tensile modulus	ISO 527 (23°C)	6.750	N/mm <sup>2</sup>
Elongation @ break	ISO 527 (23°C)	4	%
Shore D hardness		89	
Min. continuous operating temperature		-30	°C
Max. continuous operating temperature		260	°C
Max. operating temp.		320	°C
Heat deflection Temperature 1,8MPa		315	°C
Thermal expansion up to 150°C		1,50	1/K10 <sup>-5</sup>
Water absorption	ISO 62 (50%RH, 23°C)	0,08	%
Coëfficiënt of friction at steel (Dynamic – 23°C)		0,32	
Coëfficiënt of friction at steel (Dynamic – 200°C)		0,58	