



## Material Datasheet

### PEEK Bearing Grade BG 1330 Extruded material

PDS nr.: PDS-IM-206, edition: 13/08/2018  
Filler content: 10% PTFE, 10% Graphite, 10% Carbon fiber, Color: Dark Grey/Black  
Test sample: Extruded material, ø30mm  
QC responsible: Ruben Denteneer

Density	ISO 1183 (23°C)	1,44	gr/cm <sup>3</sup>
Extrusion direction test values			
Tensile Strength	ISO 527 (23°C)	76	N/mm <sup>2</sup>
Tensile modulus	ISO 527 (23°C)	6.100	N/mm <sup>2</sup>
Elongation @ break	ISO 527 (23°C)	4,8 - 6,0	%
Compressive strength at 1% deformation		41	N/mm <sup>2</sup>
Charpy impact strength	ISO 179/1eU	25	kJ/m <sup>2</sup> (unnotched)
Charpy impact strength	ISO 179/1eA	2,5	kJ/m <sup>2</sup> (notched)
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		2,85	1/K10 <sup>-5</sup>
Thermal conductivity		0,78	W/m/°C
Water absorption	ISO 62 (50%RH, 23°C)	0,11	%
Coëfficiënt of friction at steel (Dynamic – 23°C)		0,30	

The values in this datasheet are measured on internally made test samples. These are worth full indications, however not guaranteed values.