



## Material Datasheet

### PEEK Bearing Grade BG 4330 Compression material

PDS nr.: PDS-IM-204, edition: 13/08/2018  
Filler content: 10% PTFE, 10% Graphite, 10% Carbon fiber,  
Color: Dark Grey/Black  
Test sample: Compression moulded material,  $\varnothing 300 \times \varnothing 250$ mm  
QC responsible: Ruben Denteneer

Density	ISO 1183 (23°C)	1,47	gr/cm <sup>3</sup>
Moulding direction test values			
Tensile Strength	ISO 527 (23°C)	52	N/mm <sup>2</sup>
Tensile modulus	ISO 527 (23°C)	3.210	N/mm <sup>2</sup>
Elongation @ break	ISO 527 (23°C)	4	%
Compressive strength at 1% deformation		150	N/mm <sup>2</sup>
Shore D hardness		86	
Min. continuous operating temperature		-30	°C
Max. continuous operating temperature		260	°C
Max. operating temp.		300	°C
Thermal expansion up to 150°C		2,5	1/K10 <sup>-5</sup>
Water absorption	ISO 62 (50%RH, 23°C)	0,06	%
Coëfficiënt of friction at steel (Dynamic – 23°C)		0,28	
Coëfficiënt of friction at steel (Dynamic – 200°C)		0,36	

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