



## Material Datasheet

### PPS - BG Extruded material

PDS nr.: PDS-IM-009, edition 13/08/2018  
Filler content: Glass fiber, PTFE, Color: Blue  
Test sample: Extruded material, ø30mm  
QC responsible: Ruben Denteneer

Density	ISO 1183 (23°C)	1,42	gr/cm <sup>3</sup>
Extrusion direction test values			
Tensile Strength	ISO 527 (23°C)	78	N/mm <sup>2</sup>
Tensile modulus	ISO 527 (23°C)	4.000	N/mm <sup>2</sup>
Elongation @ break	ISO 527 (23°C)	3,5	%
Compressive strength at 1% deformation		33	N/mm <sup>2</sup>
Compressive strength at 2% deformation		65	N/mm <sup>2</sup>
Charpy impact strength	ISO 179/1eU	25	kJ/m <sup>2</sup> (unnotched)
Charpy impact strength	ISO 179/1eA	4	kJ/m <sup>2</sup> (notched)
Shore D hardness		81	
Min. continuous operating temperature		-20	°C
Max. continuous operating temperature		220	°C
Max. operating temp.		240	°C
Thermal expansion up to 150°C		6,0	1/K10 <sup>-5</sup>
Thermal conductivity		0,30	W/m/°C
Water absorption	ISO 62 (50%RH, 23°C)	0,02	%
Coëfficiënt of friction at steel (Dynamic at 23°C)		0,24	

The values in this datasheet are measured on internally made test samples or provided by our material supplier.  
These are worth full indications, however not guaranteed values.