



Material Datasheet

Natural PEEK, extruded

PDS nr.: PDS-IM-208, edition: 06/10/2022
Filler content: -
Color: Tan
Test sample: extruded material rod \varnothing 20mm
QC responsible: Ruben Denteneer

Density	ISO 1183 (23°C)	1,32	gr/cm ³
Moulding direction test samples (MD)			
Tensile Strength	ISO 527 (23°C)	110	N/mm ²
Elongation @ max stress	ISO 527 (23°C)	6	%
Elongation @ break	ISO 527 (23°C)	20	%
Compressive strength at 1% deformation		112	N/mm ²
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		5,0	1/K10 ⁻⁵
Water absorption	ISO 62 (50%RH, 23°C)	0,19	%
Coëfficiënt of friction at steel (Dynamic – 23°C)		0,35	
Coëfficiënt of friction at steel (Dynamic – 200°C)		0,78	

The raw material is approved acc. to FDA 21 CFR 177.2415