



DATASHEET

High Performance PEEK

(Cryogenic grade)

KEY POINTS

- Enhanced toughness and ductility at cryogenic temperatures
- High temperature stability
- Rapid recovery on removal of load
- Creep resistance
- Corrosion and Chemical resistance
- Excellent tribological properties
- Suitable stiffness characteristics to allow effective sealing at very low, ambient and high temperatures

PROPERTIES

PROPERTY	TEST METHOD	TYPICAL VALUE	UNIT
Color	-	Beige	-
Coefficient of thermal expansion			
At 23 °C	ISO 11359	5.0 * 10 ⁻⁵	
At -100°C	DIN 51909	4.5 * 10 ⁻⁵	°C ⁻¹
At -150°C	DIN 51909	4.3 * 10 ⁻⁵	
Thermal Conductivity			
At 23 °C	ISO 22007-2	0.29	
At -100°C	DIN V ENV 1159-4	0.20	W*m ⁻¹ *K ⁻¹
At -150°C	DIN V ENV 1159-4	0.16	
Tensile strength			
Room Temperature 23°C	ASTM D1708	100	MPa
Cryogenic Temperature -196°C		230	
Elongation at break			
Room Temperature 23°C	ASTM D1708	30	%
Cryogenic Temperature -196°C		9	
Compressive strength			
Room Temperature 23°C	ASTM D695	130	MPa
Cryogenic Temperature -196°C		300	
Hardness – Shore D	ASTM D2240	84	Scale D
Friction Coefficient	ASTM G133-05	0.28	-
Melt temp	ASTM D 3418	343	°C
Service temp. range	/	-200 - 250	°C
Specific density	ASTM D792	1.30	g/cm ³
Water absorption (24hr at 23°C)	ASTM D570	0.10	%



Industrieterrein Zwaarveld 65
B-9220 Hamme - Belgium

**PRECISION MACHINED
COMPONENTS**

Made out of **high performance plastics**

V21-02 RevA

<https://www.innoplast.be/>

info@innoplast.be

+32 (0) 52 477 624