

PEEK

PEEK HP3 is characterized by an outstanding combination of properties like:

- Excellent high temperature performance
- High wear resistance
- Outstanding chemical resistance
- Best fire, smoke and toxicity performance
- Good hydrolysis resistance
- Potential biocompatibility
- Sterilisability

Due to this exceptional combination of properties is optimally suited for highest demanding application e.g. in medicine, aerospace industry or motorsports.

Properties	Test Method	SI Unity	Value
General Properties			
Density (lasersintered)		Kg/m ³	1310

Special Charateristic	General chemical resistance, Hydrolytically Stable		
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Mechanical Properties	Test Method	SI Unity	Value
Tensile Strength	UNI EN ISO 527-1/-2	Mpa	90
Tensile Modulus	UNI EN ISO 527-1/-2	Mpa	4250
Strain at break	UNI EN ISO 527-1/-2	%	2,80

Thermal Properties	Test Method	SI Unity	Value
Melting Temperature (20°C/min)	UNI EN ISO 11357/-1/-3	°C	372
Temp. of deflection under load (1.80Mpa)	UNI EN ISO 75-1/-2	°C	165