

Multiplast PEEK PVX

Multiplast PEEK PVX, Polyether ether ketone with carbon fibres, PTFE and graphite, is a high temperature-resistant thermoplastics with very good sliding values.

Multiplast PEEK PVX:

- Very good sliding values
- Suitable for bearings under high levels of stress

Properties	Units		
Modulus of elasticity (tensile test)	MPa	5500	
Tensile strength	MPa	84	
Tensile strength at yield	MPa	84	
Elongation at yield	%	3	
Elongation at break	%	3	
Modulus of elasticity (flexural test)	MPa	6000	
Flexural strength	MPa	142	
Compression modulus	MPa	4000	
Compressive strength (1% / 2%)	MPa	23 / 44	
Impact strength (Charpy)	kJ / m ²	28	
Notched impact strength (Charpy)	kJ / m ²	-	
Ball indentation hardness	MPa	250	
Glass transition temperature	°C	146	
Melting temperature	°C	341	
Service temperature	short term	°C	300
	long term	°C	260
Thermal expansion	23 °C – 60 °C	10 ⁻⁵ K ⁻¹	3
	23 °C – 100 °C	10 ⁻⁵ K ⁻¹	3
Specific heat	J / (g x K)	1,1	
Thermal conductivity	W /m K	0,82	

