

Properties of PEEK	Unit	Range	Tolerances / Remarks
Specific volume resistivity (IEC 60093)	$\Omega \cdot \text{cm}$	10^{14}	
Thermal conductivity (DIN 52 612)	$\text{W} / (\text{m} \cdot \text{K})$	0.25	
Linear coefficient of thermal expansion		$1.7 \times 10^{-5} / \text{K}$	
Temperature resistance according UL 746 (RTI)	$^{\circ} \text{C}$	< 240	temporarily up to 300°C
Tensile modulus	MPa	3700	
Elongation at break	%	50	
Breaking strength (ISO 527)	%	> 60	
Surface roughness Rz	μm	0.3 - 0.5	
Hardness		> 3H (very hard)	Rockwell M99
Notch impact energy	$\text{kJ} \cdot \text{mm}^{-2}$	55	Izod-Notch impact energy: 6.4 KJ/m ²
Dielectric strength (IEC 60243-1)	kV/mm	25	at 1.6mm
Abrasion resistance		very good	
Other properties	sufficient anti-adhesive properties		