

PEEK iPEEK® i550P

Mechanical Data

Test Item	Test Method	Conditions	Units	Test Data
Mechanical Data				
Tensile Strength	ISO 527	Yield, 23°C	MPa	100
Tensile Elongation	ISO 527	Break, 23°C	%	40
Flexural Strength	ISO 178	23°C	MPa	160
Flexural Modulus	ISO 178	23°C	GPa	4.1
Izod Impact Strength	ISO 180/A	Notched	kJ m^{-2}	5.5
	ISO 180/U	Unnotched	kJ m^{-2}	-
Mould Shrinkage	ISO 294-4	Along Flow	%	1
		Across Flow	%	1.3

Thermal Data

Melting Point	ISO 11357	-	°C	343
Glass Transition (Tg)	ISO 11357	Onset	°C	143

Flow

Melt Index	ISO 1133	380°C, 5kg	g 10min^{-1}	20
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Miscellaneous

Density	ISO 1183	Crystalline	g cm^{-3}	1.3
Volume Density	ISO 1183	-	g cm^{-3}	-
Average Particle Size (D50)	ISO 13320-1	-	μm	-

*Result based on similar products