



INDUSTRIAL PEEK Filament TDS



Made in Türkiye

*perfect layer adhesion

*perfect temperature resistance (250 °C)

*perfect mechanical properties

*perfect chemical resistance

*perfect fatigue resistance

*1.75 mm, diameter tolerance: +/- 0.04mm

Mechanical properties	Value	Unit	Test Standard
Tensile modulus	3600	Mpa	ISO 527
Yield stress	94	Mpa	ISO 527
Yield strain	5	%	ISO 527
Nominal strain at break	30	%	ISO 527
Tensile Strength	96	Mpa	ISO 527
Flexural Modulus, +23°C	3450	Mpa	ISO 178
Flexural stress at conv. deflection, +23°C	114	MPA	ISO 178
Flexural strain at flexural strength, +23°C	7	%	ISO178
Charpy notched impact strength, +23°C	7	Kj/m2	ISO 179/1eA
Thermal properties	Value	Unit	Test Standard
Melting temperature, 10°C/min	343	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	115	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	205	°C	ISO 75-1/-2
Vicat softening temperature, A, 10N, 50 K/h	336	°C	ISO 306
Coeff. of linear therm. expansion, parallel	60	E-6/K	ISO 11359-1/-2
Burning Behavior. at 1.5 mm nom. thickness	V-0	class	IEC 60695-11-10
Oxygen index	38	%	ISO 4589-1/-2
Electrical properties	Value	Unit	Test Standard
Relative permittivity, 100Hz	2.8	-	IEC 62631-2-1
Relative permittivity, 1MHz	2.8	-	IEC 62631-2-1
Dissipation factor, 1MHz	50	E-4	IEC 62631-2-1
Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1
Surface resistivity	1E15	Ohm	IEC 62631-3-2
Comparative tracking index	200	-	IEC 60112

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Other properties	Value	Unit	Test Standard
Water absorption	0.5	%	Sim. to ISO 62
Density	1300	kg/m ³	ISO 1183

3D Printing Settings	Value	Unit
Print Temperature	380-500	°C
Platform Temperature	150-200	°C
Chamber Temperature	90≥	°C

***Dry minimum 5 hours at 120 °C before printing**

*Depends on platform type you may need special adhesive.

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