

PEEK®

450G

Item		Unit	Testing Method	450G
Density		g/cm ³	ISO 1183	1.32
Water absorption (23°C, 24hrs)		%	ISO 62	0.5
Mold Shrinkage (80×80×2mmt)	Flow direction	%		0.7
	Transverse direction	%		1.2
Tensile Stress at yield		MPa	ISO 527	97
Tensile Strain at break		%	ISO 527	>60
Flexural strength		MPa	ISO 178	170
Flexural modulus		GPa	ISO 178	3.6
Izod notched impact strength		KJ/m ²	ISO 180	6.4
Temperature of deflection under load (1.8MPa)		°C	ISO 75	152
Coefficient of linear thermal expansion	< Tg	×10 ⁻⁵ /°C	ASTM D696	4.7
	> Tg	×10 ⁻⁵ /°C	ASTM D696	10.8
Flammability (1.45mmt)		—	UL94	V-0
Dielectric constant	(50Hz, 0-150°C)		IEC 60250	3.2
	(50Hz, 200°C)		IEC 60250	4.5
Dielectric loss tangent	(23°C, 1MHz)		IEC 60250	0.003
Electric strength (50 μm film)		kV/mm	IEC 60243	190
Volume resistivity		Ohm·cm	IEC 60093	4.9
Surface resistivity		Ohm	IEC 60093	—
Tracking resistance		V	IEC 60112	150

• All figures in the table are the typical values of the material and not the minimum values of the material specifications.