

ZYPEEK® 551G

PEEK

Jilin Joinature Polymer Co.,Ltd.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	14	g/10min	ISO 1133
Temperature	380	°C	-
Load	5	kg	-
Molding shrinkage, parallel	1.0	%	ISO 294-4, 2577
Molding shrinkage, normal	1.3	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Yield stress	100	MPa	ISO 527
Strain at break	40	%	ISO 527
Flexural modulus, 23°C	4200	MPa	ISO 178
Charpy notched impact strength, +23°C	6	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C	6.5	kJ/m ²	ISO 180/1A
Shore D hardness	85	-	ISO 7619-1

Thermal properties	Value	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	343	°C	ISO 11357-1/-3
Glass transition temperature, 10°C/min	143	°C	ISO 11357-1/-2
Temp. of deflection under load, 1.80 MPa	152	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	45	E-6/K	ISO 11359-1/-2

Electrical properties	Value	Unit	Test Standard
ISO Data			
Dissipation factor, 1MHz	30	E-4	IEC 62631-2-1
Volume resistivity	1E14	Ohm*m	IEC 62631-3-1
Electric strength	23	kV/mm	IEC 60243-1
Comparative tracking index	150	-	IEC 60112

Other properties	Value	Unit	Test Standard
Water absorption	0.4	%	Sim. to ISO 62
Density	1300	kg/m ³	ISO 1183

Characteristics**Delivery form**

Granules

Special Characteristics

Flame retardant, High impact or impact modified, Sterilizable, Steam sterilization, Gamma irradiation sterilization

Features

Tribologic Grade

Certifications

Food contact, Food approval FDA 21 CFR

Applications

Electrical and Electronical, Medical

Regional Availability

Asia Pacific