

VICTREX® PEEK 150G903 BLACK

PEEK

Victrex plc

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	1.0	%	ISO 294-4, 2577
Molding shrinkage, normal	1.3	%	ISO 294-4, 2577
Thermal conductivity of melt	0.29	W/(m K)	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	4100	MPa	ISO 527
Yield stress	105	MPa	ISO 527
Strain at break	20	%	ISO 527
Flexural modulus, 23°C	3900	MPa	ISO 178
Izod impact strength, +23°C	N	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C	4.5	kJ/m ²	ISO 180/1A
Shore D hardness	84.5	-	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	156	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	50	E-6/K	ISO 11359-1/-2
Glow Wire Flammability Index (GWFI)	960	°C	IEC 60695-2-12
GWFI - thickness tested (1)	2	mm	-

Electrical properties	Value	Unit	Test Standard
ISO Data			
Volume resistivity	1E14	Ohm*m	IEC 62631-3-1
Electric strength	24	kV/mm	IEC 60243-1
Comparative tracking index	150	-	IEC 60112

Other properties	Value	Unit	Test Standard
Water absorption	0.45	%	Sim. to ISO 62
Density	1300	kg/m ³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120 - 150	°C	-
Pre-drying - Time	3 - 5	h	-
Processing humidity	≤0.02	%	-
Mold temperature	160 - 200	°C	-
Feed temperature	≤100	°C	-
Zone 1	350	°C	-
Zone 2	355	°C	-
Zone 3	355	°C	-
Zone 4	360	°C	-
Nozzle temperature	365	°C	-

Characteristics**Processing**

Injection Molding

Delivery form

Pellets, Black

Chemical Resistance

General Chemical Resistance

Certifications

Food contact, Food approval FDA 21 CFR

Special Characteristics

Sterilizable

Applications

Medical

Features

Ductile

Regional Availability

North America, Europe, Asia Pacific, South and Central America, Near East/Africa