VICTREX® PEEK ESD101

PEEK — Victrex plc

Product Texts

Material with tight electrostatic dissipative control and low outgassing.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	**0.4**	%	ISO 294-4, 2577
Molding shrinkage, normal	**0.5**	%	ISO 294-4, 2577
Thermal conductivity of melt	**0.45**	W/(m K)	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**11500**	MPa	ISO 527
Stress at break	**125**	MPa	ISO 527
Strain at break	**1.6**	%	ISO 527
Flexural modulus, 23°C	**11000**	MPa	ISO 178
Flexural strength	**200**	MPa	ISO 178
Izod impact strength, +23°C	**25**	kJ/m²	ISO 180/1U
Izod notched impact strength, +23°C	**4**	kJ/m²	ISO 180/1A
Shore D hardness	**89**	-	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	**258**	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	**25**	E-6/K	ISO 11359-1/-2

Electrical properties	Value	Unit	Test Standard
ISO Data			
Volume resistivity	**1000000**	Ohm*m	IEC 62631-3-1

Other properties	Value	Unit	Test Standard
Density	**1650**	kg/m³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**120 - 150**	°C	-
Pre-drying - Time	**3 - 5**	h	-
Mold temperature	**180 - 220**	°C	-
Feed temperature	**≤100**	°C	-
Zone 1	**365**	°C	-
Zone 2	**370**	°C	-
Zone 3	**375**	°C	-
Zone 4	**380**	°C	-
Nozzle temperature	**385**	°C	-

Characteristics

Processing

Injection Molding

Delivery form

Pellets, Black

Features

Low Emission

Applications

Electrical and Electronical

Regional Availability

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