

VICTREX® PEEK 150GL15

Polyetheretherketone

Victrex plc

Message:

High performance thermoplastic material, 15% glass fibre reinforced PolyEtherEtherKetone (PEEK), semi crystalline, granules for injection moulding, very easy flow, FDA food contact compliant, colour natural/beige.
Complex geometries with thin cross sections or long flow lengths where good strength in a static system is required. Low coefficient of thermal expansion. Chemically resistant to aggressive environments, suitable for sterilization for medical and food contact applications.

General Information			
UL YellowCard	E161131-100090384	E161131-531779	E161131-101337133
Filler / Reinforcement	Glass fiber reinforced material, 15% filler by weight		
Features	Semicrystallization		
	High strength		
	Good disinfection		
	Good liquidity		
	Good chemical resistance		
	Compliance of Food Exposure		
Uses	Non-specific food applications		
	Medical/nursing supplies		
Agency Ratings	FDA Food Exposure, Not Rated		
Appearance	Beige		
	Natural color		
Forms	Particles		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density ¹	1.40	g/cm ³	ISO 1183
Spiral Flow	18.0	cm	Internal method
Molding Shrinkage ²			ISO 294-4
Vertical flow direction: 180°C	1.0	%	ISO 294-4
Flow direction: 180°C	0.40	%	ISO 294-4
Water Absorption			ISO 62
23°C, 24 hr, 3.20 mm	0.060	%	ISO 62
Balance, 23°C, 3.20mm, 50% RH	0.40	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 23°C)	86		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	7500	MPa	ISO 527-2

Tensile Stress (Break, 23°C)	135	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.3	%	ISO 527-2
Flexural Modulus (23°C)	7500	MPa	ISO 178
Flexural Stress (23°C)	220	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	5.0	kJ/m ²	ISO 180/A
Unnotched Izod Impact Strength (23°C)	30	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	323	°C	ISO 75-2/A
Glass Transition Temperature	143	°C	ISO 11357-2
Melting Temperature	343	°C	ISO 11357-3
Linear thermal expansion coefficient			ISO 11359-2
Flow: > 143°C	3.0E-4	cm/cm/°C	ISO 11359-2
Flow: < 143°C	3.0E-4	cm/cm/°C	ISO 11359-2
Lateral: < 143°C	5.5E-4	cm/cm/°C	ISO 11359-2
Lateral: > 143°C	1.2E-3	cm/cm/°C	ISO 11359-2
Specific Heat (23°C)	1700	J/kg/°C	DSC
Thermal Conductivity (23°C)	0.30	W/m/K	Internal method
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms·cm	IEC 60093
Dielectric Strength (2.00 mm)	23	kV/mm	IEC 60243-1
Comparative Tracking Index	150	V	IEC 60112
Fill Analysis	Nominal Value	Unit	Test Method
Melt Viscosity (400°C)	210	Pa·s	ISO 11443
Injection	Nominal Value	Unit	
Drying Temperature	120 - 150	°C	
Drying Time	3.0 - 5.0	hr	
Hopper Temperature	< 100	°C	
Rear Temperature	355	°C	
Middle Temperature	360 - 365	°C	
Front Temperature	370	°C	
Nozzle Temperature	375	°C	
Mold Temperature	170 - 200	°C	
Injection instructions			
Runner: Die / nozzle >3mm, manifold >3.5mmGate: >2mm or 0.5 x part thickness			
NOTE			
1.	Crystalline		
2.	375°C nozzle		

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