

OXPEKK® IG230C

Polyetherketoneketone

Oxford Performance Materials, Inc.

Message:

OXPEKK® IG230C is a Polyetherketoneketone (PEKK) material filled with 30% carbon fiber. It is available in Europe or North America.

Typical application of OXPEKK® IG230C: Medical/Healthcare

General Information			
Filler / Reinforcement	Carbon Fiber,30% Filler by Weight		
Uses	Body Implants		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.43	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.10	%	ASTM D955
Water Absorption (24 hr)	< 0.030	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2800	MPa	ASTM D638
Tensile Strength (Break)	262	MPa	ASTM D638
Tensile Elongation (Break)	1.0	%	ASTM D638
Flexural Modulus	2200	MPa	ASTM D790
Flexural Strength	291	MPa	ASTM D790
Compressive Strength	241	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	53	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	321	°C	ASTM D648
Glass Transition Temperature	163	°C	DSC
Melting Temperature	360	°C	DSC
CLTE - Flow	1.0E-5	cm/cm/°C	ASTM D696

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Recommended distributors for this material

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