

OXPEKK® IG240C

Polyetherketoneketone

Oxford Performance Materials, Inc.

Message:

OXPEKK® IG240C is a Polyetherketoneketone (PEKK) material filled with 40% carbon fiber. It is available in Europe or North America.

Typical application of OXPEKK® IG240C: Medical/Healthcare

General Information			
Filler / Reinforcement	Carbon Fiber,40% Filler by Weight		
Uses	Body Implants		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.47	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.050	%	ASTM D955
Water Absorption (24 hr)	< 0.030	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3500	MPa	ASTM D638
Tensile Strength (Break)	269	MPa	ASTM D638
Tensile Elongation (Break)	1.0	%	ASTM D638
Flexural Modulus	3000	MPa	ASTM D790
Flexural Strength	300	MPa	ASTM D790
Compressive Strength	241	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	96	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	327	°C	ASTM D648
Glass Transition Temperature	163	°C	DSC
Melting Temperature	360	°C	DSC
CLTE - Flow	1.1E-5	cm/cm/°C	ASTM D696

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Recommended distributors for this material

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