

OXPEKK® IG300

Polyetherketoneketone
Oxford Performance Materials, Inc.

Message:

OXPEKK® IG300 is a Polyetherketoneketone (PEKK) material. It is available in Europe or North America for extrusion. Primary attribute of OXPEKK® IG300: Crystalline.
Typical application of OXPEKK® IG300: Medical/Healthcare

General Information			
Features	Crystalline		
Uses	Body Implants		
Forms	Preformed Parts		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.31	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (400°C/8.4 kg)	20 to 30	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.4	%	ASTM D955
Water Absorption (24 hr)	< 0.20	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	88		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4410	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield	138	MPa	
Break	110	MPa	
Tensile Elongation			ASTM D638
Yield	4.5	%	
Break	> 30	%	
Flexural Modulus	4550	MPa	ASTM D790
Flexural Strength (5.0% Strain)	193	MPa	ASTM D790
Compressive Strength	207	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	64	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	175	°C	ASTM D648
Glass Transition Temperature	163	°C	DSC
Melting Temperature	360	°C	DSC
CLTE - Flow	2.1E-5	cm/cm/°C	ASTM D696

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Recommended distributors for this material

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