

OXPEKK® IG100

Polyetherketoneketone
Oxford Performance Materials, Inc.

Message:

OXPEKK® IG100 is a Polyetherketoneketone (PEKK) material. It is available in Europe or North America.
Typical application of OXPEKK® IG100: Medical/Healthcare

General Information			
Features	Amorphous		
Uses	Body Implants		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.28	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (380°C/8.4 kg)	35 to 40	g/10 min	ASTM D1238
Molding Shrinkage - Flow	< 0.50	%	ASTM D955
Water Absorption (24 hr)	< 0.20	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	86		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3450	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield	103	MPa	
Break	89.6	MPa	
Tensile Elongation			ASTM D638
Yield	6.0	%	
Break	80	%	
Flexural Modulus	3380	MPa	ASTM D790
Flexural Strength (5.0% Strain)	138	MPa	ASTM D790
Compressive Strength	103	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	48	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	141	°C	ASTM D648
Glass Transition Temperature	155	°C	DSC
Melting Temperature	307	°C	DSC
CLTE - Flow	7.7E-5	cm/cm/°C	ASTM D696

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