

OP - PEI 20GF

Polyether Imide

Oxford Polymers

Message:

OP-PEI 20GF is a polyetherimide (PEI) material, and the filler is 20% glass fiber reinforced material. This product is available in North America. The main characteristics of OP-PEI 20GF are: flame retardant/rated flame.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 20% filler by weight		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.42	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	14	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.20 - 0.50	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	138	MPa	ASTM D638
Fracture	138	MPa	ASTM D638
Flexural Modulus	6140	MPa	ASTM D790
Flexural Strength	200	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (4°C)	69	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	210	°C	ASTM D648
1.8 MPa, not annealed	207	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.59 mm	V-0		UL 94
3.18 mm	V-0		UL 94
Additional Information			
Melt Mass - Flow Rate (MFR), ASTM D1238, 190°C/ 2.16kg: 5 to 22 g/10min			
Injection	Nominal Value	Unit	
Drying Temperature	143 - 149	°C	
Drying Time	4.0 - 6.0	hr	
Drying Time, Maximum	24	hr	
Rear Temperature	332 - 399	°C	
Middle Temperature	338 - 399	°C	
Front Temperature	343 - 399	°C	
Processing (Melt) Temp	338 - 399	°C	

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