

OXNILON 6 45GF

Polyamide 6
Oxford Polymers

Message:

OXNILON 6 45GF is a Polyamide 6 (Nylon 6) material filled with 45% glass fiber. It is available in North America for injection molding. Primary attribute of OXNILON 6 45GF: Flame Rated.

General Information			
Filler / Reinforcement	Glass Fiber,45% Filler by Weight		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.50	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.20 to 0.40	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	165	MPa	
Break	165	MPa	
Flexural Modulus	10300	MPa	ASTM D790
Flexural Strength	221	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (4°C)	120	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	211	°C	
1.8 MPa, Unannealed	196	°C	
Flammability	Nominal Value		Test Method
Flame Rating (1.59 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	73.9 to 85.0	°C	
Drying Time	3.0 to 4.0	hr	
Drying Time, Maximum	8.0	hr	
Rear Temperature	271 to 282	°C	
Middle Temperature	277 to 288	°C	
Front Temperature	293 to 304	°C	
Processing (Melt) Temp	288 to 299	°C	
Mold Temperature	65.6 to 104	°C	

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Recommended distributors for this material

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