

# OXNILON 6 ST 33GF

Polyamide 6  
Oxford Polymers

Message:

OXNILON 6 ST 33GF is a Polyamide 6 (Nylon 6) material filled with 33% glass fiber. It is available in North America for injection molding.  
Important attributes of OXNILON 6 ST 33GF are:  
Good Mold Release  
Heat Stabilizer  
Impact Modified  
Lubricated  
Mold Release Agent

General Information			
Filler / Reinforcement	Glass Fiber,33% Filler by Weight		
Additive	Heat Stabilizer		
	Impact Modifier		
	Lubricant		
	Mold Release		
Features	Good Mold Release		
	Heat Stabilized		
	Impact Modified		
	Lubricated		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.32	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.30	%	ASTM D955
Water Absorption (Saturation)	6.5	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	138	MPa	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Modulus	5860	MPa	ASTM D790
Flexural Strength	172	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	140	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	210	°C	ASTM D648
Injection	Nominal Value	Unit	

Drying Temperature	79.4	°C
Drying Time	2.0 to 4.0	hr
Rear Temperature	249 to 277	°C
Middle Temperature	260 to 288	°C
Front Temperature	268 to 296	°C
Nozzle Temperature	268 to 296	°C
Processing (Melt) Temp	268 to 296	°C
Mold Temperature	65.6 to 124	°C

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#### Recommended distributors for this material

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