

OXNILON 6 Unfilled

Polyamide 6
Oxford Polymers

Message:

OXNILON 6 Unfilled is a Polyamide 6 (Nylon 6) material. It is available in North America for injection molding.
Important attributes of OXNILON 6 Unfilled are:
Good Mold Release
Heat Stabilizer
Lubricated
Mold Release Agent

General Information			
Additive	Heat Stabilizer		
	Lubricant		
	Mold Release		
Features	Good Mold Release		
	Heat Stabilized		
	Lubricated		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.13	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	1.5	%	ASTM D955
Water Absorption (Saturation)	9.5	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	79.3	MPa	ASTM D638
Tensile Elongation (Break)	60	%	ASTM D638
Flexural Modulus	2410	MPa	ASTM D790
Flexural Strength	100	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	59	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	62.8	°C	ASTM D648
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	2.0	hr	
Rear Temperature	221 to 260	°C	
Middle Temperature	232 to 266	°C	

Front Temperature	249 to 271	°C
Nozzle Temperature	249 to 271	°C
Processing (Melt) Temp	243 to 279	°C
Mold Temperature	54.4 to 93.3	°C

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Recommended distributors for this material

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