

OmniLon™ PA6

Polyamide 6
OMNI Plastics, LLC

Message:
Injection Molding Grade, Nylon 6

General Information			
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.13	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	1.1 to 1.6	%	
Across Flow	1.1 to 1.6	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 23°C)	79.3	MPa	ASTM D638
Tensile Elongation (Break)	40	%	ASTM D638
Flexural Modulus	2760	MPa	ASTM D790
Flexural Strength	107	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	53	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.18 mm	177	°C	
1.8 MPa, Unannealed, 3.18 mm	65.6	°C	
Flammability	Nominal Value		Test Method
Flame Rating (3.18 mm)	HB		Internal Method
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	2.0 to 4.0	hr	
Suggested Max Moisture	0.20	%	
Rear Temperature	232 to 271	°C	
Middle Temperature	238 to 271	°C	
Front Temperature	238 to 271	°C	
Nozzle Temperature	249 to 282	°C	
Processing (Melt) Temp	232 to 271	°C	
Mold Temperature	26.7 to 82.2	°C	
Back Pressure	0.345	MPa	

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Recommended distributors for this material

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