

OmniLon™ PA6 GR43

Polyamide 6

OMNI Plastics, LLC

Message:

OmniLon™ PA6 GR43 is a Polyamide 6 (Nylon 6) product filled with 43% glass fiber. It can be processed by injection molding and is available in North America. Primary characteristic: flame rated.

General Information			
UL YellowCard	E138590-102186594		
Filler / Reinforcement	Glass Fiber,43% Filler by Weight		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.48	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	0.10 to 0.40	%	
Across Flow	0.20 to 0.60	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 23°C)	190	MPa	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Modulus	11700	MPa	ASTM D790
Flexural Strength (Break)	303	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			ASTM D648
0.45 MPa, Unannealed	218	°C	
1.8 MPa, Unannealed	213	°C	
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.50 mm	HB		
3.00 mm	HB		
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	2.0 to 4.0	hr	
Suggested Max Moisture	0.12	%	
Rear Temperature	249 to 282	°C	
Middle Temperature	260 to 293	°C	
Front Temperature	260 to 293	°C	
Nozzle Temperature	260 to 293	°C	
Processing (Melt) Temp	260 to 293	°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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