

OmniLon™ PA6/6 GR33

Polyamide 66

OMNI Plastics, LLC

Message:

OmniLon™ PA6/6 GR33 is a Polyamide 66 (Nylon 66) product filled with 33% glass fiber. It can be processed by injection molding and is available in North America. Primary characteristic: flame rated.

General Information			
UL YellowCard	E138590-102012363		
Filler / Reinforcement	Glass Fiber,33% Filler by Weight		
UL File Number	E138590		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.39	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	1.0E-3 to 3.0E-3	%	
Across Flow	4.0E-3 to 8.0E-3	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 23°C)	183	MPa	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Modulus	10400	MPa	ASTM D790
Flexural Strength	293	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	110	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.18 mm	260	°C	
1.8 MPa, Unannealed, 3.18 mm	249	°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	0.20	%	
Rear Temperature	271 to 293	°C	
Middle Temperature	271 to 293	°C	
Front Temperature	271 to 293	°C	
Nozzle Temperature	271 to 293	°C	

Processing (Melt) Temp	271 to 293	°C
Mold Temperature	26.7 to 60.0	°C
Back Pressure	0.345	MPa

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