

OmniLon™ PA612 GR40

Polyamide 612

OMNI Plastics, LLC

Message:

40% Glass Reinforced, Nylon 6/12

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 40% filler by weight		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.36	g/cm ³	ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 23°C)	176	MPa	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Modulus	9650	MPa	ASTM D790
Flexural Strength	265	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, 3.18mm	218	°C	ASTM D648
1.8 MPa, unannealed, 3.18mm	216	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Rating (3.18 mm)	HB		Internal method
Injection	Nominal Value	Unit	
Drying Temperature	79.4	°C	
Drying Time	2.0 - 4.0	hr	
Suggested Max Moisture	0.20	%	
Rear Temperature	249 - 282	°C	
Middle Temperature	260 - 293	°C	
Front Temperature	260 - 293	°C	
Nozzle Temperature	271 - 293	°C	
Processing (Melt) Temp	266 - 293	°C	
Mold Temperature	26.7 - 82.2	°C	
Back Pressure	0.345	MPa	

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Recommended distributors for this material

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