

OmniTech™ ABS GR30

Acrylonitrile Butadiene Styrene

OMNI Plastics, LLC

Message:

30% Glass Reinforced, General Purpose ABS

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	General Purpose		
Uses	General Purpose		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.26	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	4.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 23°C)	86.0	MPa	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus	8270	MPa	ASTM D790
Flexural Strength	138	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	96	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.18 mm)	104	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Rating (3.18 mm)	HB		Internal Method
Injection	Nominal Value	Unit	
Drying Temperature	87.8	°C	
Drying Time	< 4.0	hr	
Suggested Max Moisture	0.040	%	
Rear Temperature	204 to 249	°C	
Middle Temperature	216 to 260	°C	
Front Temperature	216 to 260	°C	
Nozzle Temperature	216 to 260	°C	
Processing (Melt) Temp	216 to 260	°C	
Mold Temperature	26.7 to 60.0	°C	
Back Pressure	0.345 to 0.689	MPa	

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