

OmniTech™ HDPE GRC10

High Density Polyethylene

OMNI Plastics, LLC

Message:

10% Glass Reinforced, Chemically Coupled, High Density Polyethylene

General Information			
Filler / Reinforcement	Glass Fiber,10% Filler by Weight		
Features	Chemically Coupled		
	High Density		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.01	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	8.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 23°C)	37.2	MPa	ASTM D638
Tensile Elongation (Break)	10	%	ASTM D638
Flexural Modulus	1620	MPa	ASTM D790
Flexural Strength	393	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	91	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.18 mm	143	°C	
1.8 MPa, Unannealed, 3.18 mm	93.3	°C	
Flammability	Nominal Value		Test Method
Flame Rating (3.18 mm)	HB		Internal Method
Injection	Nominal Value	Unit	
Rear Temperature	204 to 249	°C	
Middle Temperature	204 to 249	°C	
Front Temperature	204 to 249	°C	
Nozzle Temperature	204 to 249	°C	
Processing (Melt) Temp	204 to 249	°C	
Mold Temperature	26.7 to 82.2	°C	
Back Pressure	0.345	MPa	

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