

# OmniTech™ HDPE GRC40

High Density Polyethylene

OMNI Plastics, LLC

## Message:

OmniTech™ HDPE GRC40 is a High Density Polyethylene product filled with 40% glass fiber. It can be processed by injection molding and is available in North America. Primary characteristic: chemically coupled.

General Information			
Filler / Reinforcement	Glass Fiber,40% Filler by Weight		
Features	Chemically Coupled		
	High Density		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.26	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	6.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 23°C)	66.0	MPa	ASTM D638
Tensile Elongation (Break)	4.0	%	ASTM D638
Flexural Modulus	6720	MPa	ASTM D790
Flexural Strength (Break)	100	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	130	J/m	ASTM D256
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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