

OmniCarb®PC GR10

Polycarbonate

OMNI Plastics, LLC

Message:

10% Glass Reinforced Polycarbonate

General Information			
Filler / Reinforcement	Glass Fiber,10% Filler by Weight		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.25	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	14	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 23°C)	62.1	MPa	ASTM D638
Tensile Elongation (Break)	5.0	%	ASTM D638
Flexural Modulus	2960	MPa	ASTM D790
Flexural Strength	82.7	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	170	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.18 mm	138	°C	
1.8 MPa, Unannealed, 3.18 mm	135	°C	
Flammability	Nominal Value		Test Method
Flame Rating (3.00 mm)	HB		Internal Method
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	3.0 to 4.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	249 to 293	°C	
Middle Temperature	271 to 304	°C	
Front Temperature	271 to 304	°C	
Nozzle Temperature	271 to 304	°C	
Processing (Melt) Temp	271 to 304	°C	
Mold Temperature	48.9 to 104	°C	
Back Pressure	0.172 to 0.345	MPa	

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

