

OmniCarb™ PC08FR GF10

Polycarbonate

OMNI Plastics, LLC

Message:

10% Glass Reinforced, Flame Resistant Polycarbonate

General Information			
UL YellowCard	E138590-222822	E138590-222829	
Filler / Reinforcement	Glass Fiber,10% Filler by Weight		
Additive	Flame Retardant		
Features	Flame Retardant		
UL File Number	E138590		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.27	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	10	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow	0.20 to 0.50	%	
Across Flow	0.10 to 0.40	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 23°C)	60.7	MPa	ASTM D638
Tensile Elongation (Break)	12	%	ASTM D638
Flexural Modulus	3100	MPa	ASTM D790
Flexural Strength	96.5	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			ASTM D648
0.45 MPa, Unannealed, 3.18 mm	143	°C	
1.8 MPa, Unannealed, 3.18 mm	135	°C	
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.50 mm	V-0		
3.00 mm	V-0		
3.00 mm, Black	5VA		
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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