

OmniCarb™ PC08FRGF5

Polycarbonate

OMNI Plastics, LLC

Message:

5% Glass Reinforced, UV Stabilized, Flame Resistant Polycarbonate

General Information			
Filler / Reinforcement	Glass Fiber,5.0% Filler by Weight		
Additive	UV Stabilizer		
Features	Flame Retardant		
	Good UV Resistance		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	8.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 23°C)	58.6	MPa	ASTM D638
Tensile Elongation (Break)	5.0	%	ASTM D638
Flexural Modulus	2480	MPa	ASTM D790
Flexural Strength	89.6	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	110	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	127	°C	
RTI Elec	130	°C	UL 746
RTI Imp	80.0	°C	UL 746
RTI Str	125	°C	UL 746
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.50 mm	V-0		
	V-0		
3.00 mm	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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Recommended distributors for this material

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