

OmniCarb™ PC CBFR0 HSV

Polycarbonate

OMNI Plastics, LLC

Message:

Chlorine & Bromine Free, Flame Resistant, Weatherable Polycarbonate

General Information			
Features	Bromine Free		
	Chlorine Free		
	Flame Retardant		
	Good Weather Resistance		
UL File Number	E138590		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.23	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	12	g/10 min	ASTM D1238
Outdoor Suitability	f1		UL 746C
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 23°C)	67.6	MPa	ASTM D638
Tensile Elongation (Break)	> 40	%	ASTM D638
Flexural Modulus	2760	MPa	ASTM D790
Flexural Strength	107	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	640	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	
Flammability	Nominal Value		Test Method

V-0

Flame Rating (3.00 mm)	5VA	Internal Method	
Injection	Nominal Value	Unit	
Drying Temperature	116	°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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