

OmniCarb™ PC/PBT 400IM2 UV

Polycarbonate + PBT

OMNI Plastics, LLC

Message:

Cold Temperature Impact Resistant, UV Stabilized, PC/PBT Alloy

General Information			
Features	Good UV Resistance		
	Low Temperature Impact Resistance		
UL File Number	E138590		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.18	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	12	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow	0.50 to 1.1	%	
Across Flow	0.10 to 0.50	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 23°C)	51.7	MPa	ASTM D638
Tensile Elongation (Break)	120	%	ASTM D638
Flexural Modulus	1930	MPa	ASTM D790
Flexural Strength	82.7	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C, 3.18 mm	640	J/m	
23°C, 3.18 mm	750	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.18 mm)	96.1	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.50 mm, Black	HB		
3.00 mm, Black	HB		
Injection	Nominal Value	Unit	
Drying Temperature	104 to 116	°C	
Drying Time	2.0 to 4.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	227 to 243	°C	
Middle Temperature	232 to 249	°C	

Front Temperature	238 to 260	°C
Nozzle Temperature	238 to 260	°C
Processing (Melt) Temp	238 to 260	°C
Mold Temperature	48.9 to 82.2	°C
Back Pressure	0.345 to 0.689	MPa

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Recommended distributors for this material

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