

OmniCarb™ PC10

Polycarbonate

OMNI Plastics, LLC

Message:

OmniCarb™ PC10 is a Polycarbonate (PC) product. It can be processed by injection molding and is available in North America.

General Information			
Features	General Purpose		
Uses	General Purpose		
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)	10	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 23°C)	61.0	MPa	ASTM D638
Tensile Elongation (Break)	7.0	%	ASTM D638
Flexural Modulus	2280	MPa	ASTM D790
Flexural Strength (Break)	90.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	740	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	138	°C	
1.8 MPa, Unannealed	127	°C	
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	3.0 to 4.0	hr	
Suggested Max Moisture	0.10	%	
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

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

