

OmniCarb™ PC 14

Polycarbonate

OMNI Plastics, LLC

Message:

OmniCarb™ PC 14 is a Polycarbonate (PC) product. It can be processed by injection molding and is available in North America. Typical application: Automotive. Primary characteristic: medium viscosity.

General Information			
Features	General Purpose		
	Medium Viscosity		
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)	14	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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