

OmniCarb™ PC09SM

Polycarbonate

OMNI Plastics, LLC

Message:

OmniCarb™ PC09SM is a Polycarbonate (PC) product. It can be processed by injection molding and is available in North America. Primary characteristic: impact resistant.

General Information			
Features	Low Temperature Impact Resistance		
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)	9.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 23°C)	61.0	MPa	ASTM D638
Tensile Elongation (Break)	10	%	ASTM D638
Flexural Modulus	2280	MPa	ASTM D790
Flexural Strength (Break)	88.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
3.18 mm ¹	750	J/m	
23°C, 3.18 mm	850	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	125	°C	ASTM D648
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 282	°C	
Middle Temperature	260 to 293	°C	
Front Temperature	271 to 304	°C	
Nozzle Temperature	271 to 304	°C	
Processing (Melt) Temp	260 to 304	°C	
Mold Temperature	60.0 to 93.3	°C	
Back Pressure	0.172 to 0.345	MPa	
NOTE			
1.	Low Temperature		

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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



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