

Sindustris POM GC211

Acetal (POM) Homopolymer

Sincerity Australia Pty Ltd.

Message:

Sindustris POM GC211 is an Acetal (POM) Homopolymer material filled with 10% glass fiber. It is available in Asia Pacific for injection molding. Important attributes of Sindustris POM GC211 are:

Flame Rated

Rigid

Typical application of Sindustris POM GC211: Engineering/Industrial Parts

General Information			
Filler / Reinforcement	Glass Fiber,10% Filler by Weight		
Features	High Rigidity		
Uses	Bearings		
	Pump Parts		
UL File Number	E306922		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.48	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	15	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.60 to 1.1	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	83		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm)	98.1	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	5.0	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	4900	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	127	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 6.40 mm)	49	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 6.40 mm	160	°C	
1.8 MPa, Unannealed, 6.40 mm	165	°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+14	ohms	ASTM D257
Volume Resistivity (23°C)	1.0E+16	ohms · cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.750 mm	HB		

1.50 mm	HB	
Injection	Nominal Value	Unit
Drying Temperature	90.0 to 110	°C
Drying Time	2.0 to 3.0	hr
Suggested Max Moisture	0.10	%
Rear Temperature	180 to 200	°C
Middle Temperature	190 to 210	°C
Front Temperature	200 to 220	°C
Nozzle Temperature	200 to 220	°C
Processing (Melt) Temp	210 to 220	°C
Mold Temperature	60.0 to 110	°C
Back Pressure	0.00 to 4.02	MPa
Screw Speed	40 to 75	rpm
NOTE		
1.	5.0 mm/min	
2.	5.0 mm/min	
3.	1.3 mm/min	
4.	1.3 mm/min	

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