

Sindustris POM GC241

Acetal (POM) Homopolymer

Sincerity Australia Pty Ltd.

Message:

Sindustris POM GC241 is an Acetal (POM) Homopolymer material filled with 40% glass fiber. It is available in Asia Pacific for injection molding. Primary attribute of Sindustris POM GC241: Rigid.
Typical application of Sindustris POM GC241: Engineering/Industrial Parts

General Information			
Filler / Reinforcement	Glass Fiber,40% 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	1.72	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	7.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.30 to 0.70	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	87		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm)	147	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	3.0	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	11800	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	275	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 6.40 mm)	120	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
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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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



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