

Sindustris POM HI521

Acetal (POM) Homopolymer

Sincerity Australia Pty Ltd.

Message:

Sindustris POM HI521 is an Acetal (POM) Homopolymer material. It is available in Asia Pacific for injection molding.

Important attributes of Sindustris POM HI521 are:

Impact Modified

Impact Resistant

Typical application of Sindustris POM HI521: Engineering/Industrial Parts

General Information			
Additive	Rubber		
Features	High Impact Resistance		
Uses	Gears		
UL File Number	E306922		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.33	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	9.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	1.7 to 2.0	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	90		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm)	41.2	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	150	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	1470	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	53.9	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 6.40 mm)	180	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 6.40 mm	85.0	°C	
1.8 MPa, Unannealed, 6.40 mm	135	°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+13	ohms	ASTM D257
Volume Resistivity (23°C)	1.0E+15	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	160 to 180	°C	

Middle Temperature	170 to 190	°C
Front Temperature	180 to 200	°C
Nozzle Temperature	180 to 200	°C
Processing (Melt) Temp	200 to 220	°C
Mold Temperature	80.0 to 110	°C
Back Pressure	0.490 to 3.04	MPa
Screw Speed	50 to 110	rpm

NOTE

- | | |
|----|------------|
| 1. | 50 mm/min |
| 2. | 50 mm/min |
| 3. | 1.3 mm/min |
| 4. | 1.3 mm/min |

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