

Sindustris POM HI511

Acetal (POM) Homopolymer

Sincerity Australia Pty Ltd.

Message:

Sindustris POM HI511 is an Acetal (POM) Homopolymer material. It is available in Asia Pacific for injection molding.

Important attributes of Sindustris POM HI511 are:

Flame Rated

Impact Modified

Impact Resistant

Typical applications include:

Automotive

Engineering/Industrial Parts

General Information			
Additive	Rubber		
Features	High Impact Resistance		
Uses	Automotive Applications		
	Gears		
UL File Number	E306922		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.38	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	14	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)	70		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm)	53.9	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	90	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	1860	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	64.7	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	95.0	°C	
1.8 MPa, Unannealed, 6.40 mm	150	°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
Flammability	Nominal Value	Unit	Test Method

Flame Rating (0.950 mm)	HB	UL 94
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 100	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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