

# YUNTIANHUA® SF-5

Acetal (POM) Copolymer

YunNan YunTianHua Co., Ltd.

## Message:

YUNTIANHUA® SF-5 is an Acetal (POM) Copolymer product filled with 5.0% ptfe fiber. It can be processed by injection molding and is available in Asia Pacific, Europe, or North America. Typical application: Engineering/Industrial Parts.

Characteristics include:

- Flame Rated
- Copolymer
- Wear Resistant

General Information			
Filler / Reinforcement	PTFE Fiber,5.0% Filler by Weight		
Features	Copolymer		
	Good Abrasion Resistance		
	Low Friction		
Uses	Gears		
	Rollers		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.60	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	7.0	g/10 min	ISO 1133
Water Absorption (23°C, 24 hr)	0.60	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2450	MPa	ISO 527-2
Tensile Stress (Yield)	51.0	MPa	ISO 527-2
Tensile Strain (Break)	45	%	ISO 527-2
Flexural Modulus	2300	MPa	ISO 178
Flexural Stress	70.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	5.5	kJ/m <sup>2</sup>	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	80.0	°C	ISO 75-2/A
Flammability	Nominal Value	Test Method	
Flame Rating	HB	UL 94	
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 90.0	°C	

Drying Time	2.0 to 4.0	hr
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	180 to 200	°C
Mold Temperature	60.0 to 90.0	°C
Injection Pressure	50.0 to 100	MPa
Holding Pressure	30.0 to 80.0	MPa
Back Pressure	0.00 to 0.500	MPa
Screw Speed	50 to 120	rpm

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#### Recommended distributors for this material

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