

YUNTIANHUA® FP

Acetal (POM) Copolymer

YunNan YunTianHua Co., Ltd.

Message:

YUNTIANHUA® FP is an Acetal (POM) Copolymer product. 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
- Lubricated
- Wear Resistant

General Information			
Additive	Lubricant		
Features	Copolymer		
	Good Abrasion Resistance		
	Low Friction		
	Lubricated		
	Noise Damping		
Uses	Gears		
	Rollers		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.38	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	9.0	g/10 min	ISO 1133
Water Absorption (23°C, 24 hr)	0.60	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2200	MPa	ISO 527-2
Tensile Stress (Yield)	53.0	MPa	ISO 527-2
Tensile Strain (Break)	40	%	ISO 527-2
Flexural Modulus	2100	MPa	ISO 178
Flexural Stress	70.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	5.0	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	70.0	°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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