

YUNTIANHUA® ST-20

Acetal (POM) Copolymer

YunNan YunTianHua Co., Ltd.

Message:

YUNTIANHUA® ST-20 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
- Chemical Resistant
- Copolymer
- Fatigue Resistant
- Good Toughness

General Information			
Features	Copolymer		
	Fatigue Resistant		
	Good Chemical Resistance		
	Good Toughness		
	Good Wear Resistance		
	High Impact Resistance		
	Impact Modified		
Uses	Fasteners		
	Gaskets		
	Gears		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.30	g/cm ³	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	1200	MPa	ISO 527-2
Tensile Stress (Yield)	33.0	MPa	ISO 527-2
Tensile Strain (Break)	140	%	ISO 527-2
Flexural Modulus	1100	MPa	ISO 178
Flexural Stress	35.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	20	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method

Heat Deflection Temperature (1.8 MPa, Unannealed)	60.0	°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	3.0 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	170 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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