

YUNTIANHUA® GF-25

Acetal (POM) Copolymer

YunNan YunTianHua Co., Ltd.

Message:

YUNTIANHUA® GF-25 is an Acetal (POM) Copolymer product filled with 25% glass fiber. It can be processed by injection molding and is available in Asia Pacific, Europe, or North America. Applications of YUNTIANHUA® GF-25 include engineering/industrial parts, automotive and conveyors.

Characteristics include:

- Flame Rated
- Copolymer
- Creep Resistant
- Fatigue Resistant
- Heat Resistant

General Information			
Filler / Reinforcement	Glass Fiber,25% Filler by Weight		
Features	Copolymer		
	Fatigue Resistant		
	Good Creep Resistance		
	High Heat Resistance		
	High Stiffness		
	Low Shrinkage		
Uses	Automotive Under the Hood		
	Bearings		
	Belts/Belt Repair		
	Cams		
	Conveyor Parts		
	Gears		
	Valves/Valve Parts		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.60	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	6.0	g/10 min	ISO 1133
Water Absorption (23°C, 24 hr)	0.60	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8000	MPa	ISO 527-2
Tensile Stress (Yield)	130	MPa	ISO 527-2
Tensile Strain (Break)	2.5	%	ISO 527-2
Flexural Modulus	7500	MPa	ISO 178
Flexural Stress	180	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	7.0	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	160	°C	ISO 75-2/A
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	100 to 120	°C	
Drying Time	2.0 to 4.0	hr	
Rear Temperature	160 to 180	°C	
Middle Temperature	170 to 200	°C	
Front Temperature	180 to 210	°C	
Nozzle Temperature	180 to 210	°C	
Processing (Melt) Temp	180 to 210	°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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