

YUNTIANHUA® M270

Acetal (POM) Copolymer

YunNan YunTianHua Co., Ltd.

Message:

YUNTIANHUA® M270 is an Acetal (POM) Copolymer product. It can be processed by injection molding and is available in Asia Pacific, Europe, or North America. Applications of YUNTIANHUA® M270 include bottles and engineering/industrial parts.

Characteristics include:

- Flame Rated
- Chemical Resistant
- Bacteria Resistant
- Copolymer
- Fatigue Resistant

General Information			
UL YellowCard	E242659-298906		
Features	Acid Resistant		
	Bacteria Resistant		
	Copolymer		
	Fatigue Resistant		
	Good Abrasion Resistance		
	Good Chemical Resistance		
	Good Dimensional Stability		
	Good Electrical Properties		
	High Flow		
	High Hardness		
	Low Friction		
	Low Warpage		
	Solvent Resistant		
Uses	Bottles		
	Fasteners		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.41	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	27	g/10 min	ISO 1133
Water Absorption (23°C, 24 hr)	0.50	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2700	MPa	ISO 527-2
Tensile Stress (Yield)	62.0	MPa	ISO 527-2
Tensile Strain (Break)	25	%	ISO 527-2

Flexural Modulus	2550	MPa	ISO 178
Flexural Stress	89.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	4.5	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	98.0	°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 200	°C	
Front Temperature	190 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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