

YUNTIANHUA® M450

Acetal (POM) Copolymer

YunNan YunTianHua Co., Ltd.

Message:

YUNTIANHUA® M450 is a polyoxymethylene (POM) copolymer product. It can be processed by injection molding and is available in North America, Europe or the Asia-Pacific region. YUNTIANHUA® The application fields of M450 include engineering/industrial accessories and bottles.

Features include:

flame retardant/rated flame

chemical resistance

high liquidity

high hardness

Copolymer

General Information			
Features	Good dimensional stability		
	Low friction coefficient		
	Low warpage		
	Copolymer		
	Antibacterial		
	Solvent resistance		
	Good electrical performance		
	Good wear resistance		
	High liquidity		
	Good chemical resistance		
	Fatigue resistance		
	acid resistance		
	High hardness		
Uses	Fasteners		
	Bottle		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.41	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	45	g/10 min	ISO 1133
Water Absorption (23°C, 24 hr)	0.50	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2750	MPa	ISO 527-2
Tensile Stress (Yield)	62.0	MPa	ISO 527-2
Tensile Strain (Break)	20	%	ISO 527-2
Flexural Modulus	2600	MPa	ISO 178

Flexural Stress	89.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	3.5	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 - 90.0	°C	
Drying Time	3.0 - 4.0	hr	
Rear Temperature	160 - 180	°C	
Middle Temperature	170 - 200	°C	
Front Temperature	190 - 210	°C	
Nozzle Temperature	180 - 210	°C	
Processing (Melt) Temp	180 - 210	°C	
Mold Temperature	60.0 - 90.0	°C	
Injection Pressure	50.0 - 100	MPa	
Holding Pressure	30.0 - 80.0	MPa	
Back Pressure	0.00 - 0.500	MPa	
Screw Speed	50 - 120	rpm	
Extrusion	Nominal Value	Unit	
Melt Temperature	180 - 190	°C	
Extrusion instructions			

Standard extruders with grooved feed zone and short compression screws (minimum 25 D) will fit.

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