

# YUNTIANHUA® M90

Acetal (POM) Copolymer  
YunNan YunTianHua Co., Ltd.

Message:

YUNTIANHUA® M90 is a polyoxymethylene (POM) copolymer product. It can be processed by extrusion or injection molding and is available in North America, Europe or Asia Pacific. YUNTIANHUA® The application areas of M90 include engineering/industrial parts and automobile industry.

Features include:

- flame retardant/rated flame
- chemical resistance
- High stiffness
- high hardness
- Copolymer

General Information	
UL YellowCard	E242659-298904
Features	Good dimensional stability
	Low friction coefficient
	Low warpage
	Rigidity, high
	Copolymer
	Antibacterial
	Solvent resistance
	Good electrical performance
	Good liquidity
	Good wear resistance
	Good chemical resistance
	alkali resistance
	Fatigue resistance
	acid resistance
	High hardness
Uses	Thin wall parts
	Pump parts
	Wheels
	Gear
	Valve/valve components
	Accessories
	Parts under the hood of a car
	Automotive Electronics
	Automotive exterior parts
	Bearing

Forms	Particle		
Processing Method	Extrusion		
	Injection molding		

  

Physical	Nominal Value	Unit	Test Method
Density	1.41	g/cm <sup>3</sup>	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	2650	MPa	ISO 527-2
Tensile Stress (Yield)	62.0	MPa	ISO 527-2
Tensile Strain (Break)	35	%	ISO 527-2
Flexural Modulus	2600	MPa	ISO 178
Flexural Stress	88.0	MPa	ISO 178

  

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	6.0	kJ/m <sup>2</sup>	ISO 179/1eA

  

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	95.0	°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
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Standard extruders with grooved feed zone and short compression screws (minimum 25 D) will fit.

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