

# YUNTIANHUA® GM90

Acetal (POM) Copolymer

YunNan YunTianHua Co., Ltd.

## Message:

YUNTIANHUA®GM90 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 GM90 include engineering/industrial parts and automobile industry.

Features include:

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

General Information	
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
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	2550	MPa	ISO 527-2
Tensile Stress (Yield)	61.0	MPa	ISO 527-2
Tensile Strain (Break)	30	%	ISO 527-2
Flexural Modulus	2500	MPa	ISO 178
Flexural Stress	88.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	5.5	kJ/m <sup>2</sup>	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	90.0	°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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