

YUNCON® N90-01

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

Message:
Standard-flow grade, with minimized mold deposit

General Information	
UL YellowCard	E242659-298904
Features	Acid Resistant
	Bacteria Resistant
	Base Resistant
	Copolymer
	Fatigue Resistant
	Good Abrasion Resistance
	Good Chemical Resistance
	Good Dimensional Stability
	Good Electrical Properties
	Good Flow
	High Hardness
	High Stiffness
	Low Friction
	Low Warpage
	Solvent Resistant
Uses	Automotive Electronics
	Automotive Exterior Parts
	Automotive Under the Hood
	Bearings
	Fittings
	Gears
	Pump Parts
	Thin-walled Parts
	Valves/Valve Parts
	Wheels
Agency Ratings	DMF Unspecified Rating
	EN 71-3
	FDA Unspecified Rating
	NSF Unspecified Rating
	UL Unspecified Rating

RoHS Compliance	RoHS Compliant
Forms	Pellets
Processing Method	Extrusion 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)	9.0	g/10 min	ISO 1133
Water Absorption (23°C, 24 hr)	0.30	%	ISO 62

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2650	MPa	ISO 527-2
Tensile Stress (Yield)	61.0	MPa	ISO 527-2
Tensile Strain (Break)	35	%	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	5.5	kJ/m ²	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 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

Extrusion	Nominal Value	Unit
Melt Temperature	180 to 190	°C

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