YUNTIANHUA® FP

special lubricant components filled Acetal (POM) Copolymer

云南云天化股份有限公司
YUNNAN YUNTIANHUA CO., LTD

General	
Material Status	• Filled with special lubricant components
Features	• Highly improved friction and abrasion coefficient than standard grade. and also with excellent noise resistant, Especially suit for the environments of high speed and load.
Uses	• To make the abrasion resistanting objects such as gears, rollers and other silders, especially suit for the environments of without oil or less oil.
Forms	• Pellets
Processing Method	• Injection Molding

Physical properties	Value	Unit	Test Standard
Density	1.38	g/cm^3	ISO 1183
Melt Mass-Flow Rate (MFR) (190℃/2.16Kg)	9	g/10min	ISO 1133
Water Absorption (24 hr, 23℃)	0.6	%	ISO 62
Mechanical properties	**Value**	**Unit**	**Test Standard**
Tensile Stress at yield	53	MPa	ISO 527-2
Tensile modulus	2200	MPa	ISO 527-2
Strain at break	40	%	ISO 527-2
Flexural strength	70	MPa	ISO 178
Flexural modulus	2100	MPa	ISO 178
Charpy notched impact strength	5.0	KJ/m^2	ISO 179/1eA
Thermal properties	**Value**	**Unit**	**Test Standard**
Heat Deflection Temperature （1.8Mpa, Unannealed）	70	℃	ISO 75
Flammability properties	**Value**	**Unit**	**Test Standard**
Flame Rating-UL	HB	class	UL94

Notes to users

Values shown are based on testing of laboratory test specimens and represent data that fall within the standard range of properties for natural materal. These values alone do not represent a sufficient basis for any part design and are not intended for use in establing maximum, minimum, or ranges of values for specification purposes. Colorants or other additives may cause significant variations in data values.

Recommended Injection Molding Conditions

- Material Drying : 80 – 90℃, 2-4 hours
- Cylinder Temperature:

  Nozzle : 180 - 200 (℃)

  Front Section : 180 – 200(℃)

  Center Section : 170 – 190 (℃)

  Rear Section : 160 – 180 (℃)
- Melt Temperature : 180 – 200 (℃)
- Mold Temperature : 60 – 90 (℃)

  (Precision parts are often molede at a mold at a mold temperature as high as 120℃)
- Pressure :

  Injection Pressure : 50 – 100 Mpa

  Holding Pressure : 30 – 80 Mpa

  Back Pressure : 0 – 0.5 MPa
- Screw Rotational Speed : 50 – 120 rpm

Contact information

- **Production**

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- **Technical Support**

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