# YUNTIANHUA® EF



## special lubricant components filled Acetal (POM) Copolymer

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 res	ets such as gear	s, 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 <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16Kg)		9	g/10min	ISO 1133
Water Absorption (24 hr, 23 °C)		0.6	%	ISO 62
Mechanical properties		Value	Unit	Test Standard
Tensile Stress at yield		55	MPa	ISO 527-2
Tensile modulus		2300	MPa	ISO 527-2
Strain at break		45	%	ISO 527-2
Flexural strength		75	MPa	ISO 178
Flexural modulus		2200	MPa	ISO 178
Charpy notched impact strength		5.5	$KJ/m^2$	ISO 179/1eA
Thermal properties		Value	Unit	Test Standard
Heat Deflection Temperature		70	${\mathbb C}$	ISO 75
(1.8Mpa, Unannealed)				
Flammability properties		Value	Unit	Test Standard
Flame Rating-UL		НВ	class	UL94
AV				· · · · · · · · · · · · · · · · · · ·

#### 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°C, 2-4 hours

• Cylinder Temperature:

Nozzle: 180 - 200 (°C)

Front Section:  $180 - 200(^{\circ}C)$ 

Center Section: 170 - 190 ( $^{\circ}$ C)

Rear Section : 160 - 180 (°C)

• Melt Temperature : 180 − 200 (°C)

• Mold Temperature : 60 - 90 (°C)

(Precision parts are often molede at a mold at a mold temperature as high as 120°C)

• 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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