

YUNCON ST-10

Impact Modified Acetal (POM) Copolymer



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

General

Material Status	•elastomer-containing		
Features	• Higher impact resistance and toughness than standard grade M90, without dropping basic characteristics of POM such as fatigue resistance, wear resistance and chemical resistance.		
Uses	• Spoiler Clip • Gear	• Bumper Clip • Sleeve	• Mudguard Clip • Gasket
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical properties	Value	Unit	Test Standard
Density	1.37	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16Kg)	7	g/10min	ISO 1133

Mechanical properties	Value	Unit	Test Standard
Tensile Stress at yield	45	MPa	ISO 527-2
Tensile modulus	1750	MPa	ISO 527-2
Strain at break	60	%	ISO 527-2
Flexural strength	60	MPa	ISO 178
Flexural modulus	1600	MPa	ISO 178
Charpy notched impact strength	12	KJ/m ²	ISO 179/1eA

Thermal properties	Value	Unit	Test Standard
Heat Deflection Temperature (1.8Mpa, Unannealed)	75	°C	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 material. These values alone do not represent a sufficient basis for any part design and are not intended for use in establishing 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(°C)

Center Section : 170 – 190 (°C)

Rear Section : 160 – 180 (°C)

- Melt Temperature : 170 – 200 (°C)

- Mold Temperature : 60 – 90 (°C)

(Precision parts are often made 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

YunNan YunTianHua CO.,LTD

<http://www.yyth.com.cn>

Headquarters: YunNan • ShuiFu

Branch: ChongQing • ChangShou

Tel: 0870-8662003

Tel: 023-40717299

Fax: 0870-8636337

Fax: 023-68980888

• Technical Support

Technical support hotline: 400-1188-668