

云钢® M270BK

Acetal (POM) Copolymer



General

Material Status	• Black, High-flow grad, with minimized mold deposit		
Features	• Acid Resistant • Bacteria Resistant • Solvent Resistant • Fatigue Resistant	• Good Abrasion Resistance • Good Chemical Resistance • Good Dimensional Stability • Good Electrical Properties	• High Hardness • Low Warp • Low Friction • High Flow
Uses	• Lighters	• aerosol bottles	• fasteners
Forms	• Black Pellets		
Processing Method	• Injection Molding		

Physical properties	Value	Unit	Test Standard
Density	1.41	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16Kg)	29	g/10min	ISO 1133

Mechanical properties	Value	Unit	Test Standard
Tensile Stress at yield	62	MPa	ISO 527-2
Tensile modulus	2700	MPa	ISO 527-2
Strain at break	25	%	ISO 527-2
Flexural strength	90	MPa	ISO 178
Flexural modulus	2550	MPa	ISO 178
Charpy notched impact strength	4.5	KJ/m ²	ISO 179/1eA

Thermal properties	Value	Unit	Test Standard
Heat Deflection Temperature 1.8Mpa, Unannealed	95	°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, 3-4 hours

• Cylinder Temperature:

Nozzle : 180 - 210 (°C)

Front Section : 190 – 210 (°C)

Center Section : 170 – 200 (°C)

Rear Section : 160 – 180 (°C)

• Melt Temperature : 180 – 210 (°C)

• Mold Temperature : 60 – 90 (°C)

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

• Pressure :

Injection Pressure: 50 – 100 MPa

Holding Pressure: 0 – 80 MPa

Back Pressure: 0 – 0.5 MPa

• Screw Rotational Speed : 50 – 120 rpm

Acquired Certifications of Yuntianhua POM

• RoHS test

• PFOS test

• Halogen element test

• SVHC test

• DMF test

• EN1186btest

• DBT&TBT test

• EN71-3 test

• Certification W18 test

• Certification FDA

• Certification UL

• Certification NSF

For details, please contact Yuntianhua technicians.

Contact information

• Production

YunNan YunTianHua CO., LTD

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

Headquarters: YunNan • ShuiFu

Tel: 0870-8662003

Fax: 0870-8636337

Branch: ChongQing • ChangShou

Tel: 023-40717299

Fax: 023-68980888

• Technical Support

Technical support hotline: 400-1188-668