

YUNTIANHUA® CM90

Acetal (POM) Copolymer

YunNan YunTianHua Co., Ltd.

Message:

YUNTIANHUA®CM90 is a polyoxymethylene (POM) copolymer product. It can be processed by extrusion or injection molding and is available in North America, Europe or Asia Pacific. YUNTIANHUA®CM90 applications include engineering/industrial parts and automotive industries.

Features include:

- flame retardant/rated flame
- chemical resistance
- High stiffness
- high hardness
- Copolymer

| General Information | |
|---------------------|-------------------------------|
| Features | Good dimensional stability |
| | Low friction coefficient |
| | Low warpage |
| | Rigidity, high |
| | Copolymer |
| | Antibacterial |
| | Solvent resistance |
| | Good electrical performance |
| | Good liquidity |
| | Good wear resistance |
| | Good chemical resistance |
| | alkali resistance |
| | Fatigue resistance |
| | acid resistance |
| | High hardness |
| Uses | Thin wall parts |
| | Pump parts |
| | Wheels |
| | Gear |
| | Valve/valve components |
| | Accessories |
| | Parts under the hood of a car |
| | Automotive Electronics |
| | Automotive exterior parts |
| | Bearing |
| Forms | Particle |

| 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) | 0.60 | % | ISO 62 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 2700 | MPa | ISO 527-2 |
| Tensile Stress (Yield) | 64.0 | MPa | ISO 527-2 |
| Tensile Strain (Break) | 35 | % | ISO 527-2 |
| Flexural Modulus | 2600 | MPa | ISO 178 |
| Flexural Stress | 88.0 | MPa | ISO 178 |
| Impact | Nominal Value | Unit | Test Method |
| Charpy Notched Impact Strength | 6.0 | 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 - 90.0 | °C | |
| Drying Time | 3.0 - 4.0 | hr | |
| Rear Temperature | 160 - 180 | °C | |
| Middle Temperature | 170 - 200 | °C | |
| Front Temperature | 190 - 210 | °C | |
| Nozzle Temperature | 180 - 210 | °C | |
| Processing (Melt) Temp | 180 - 210 | °C | |
| Mold Temperature | 60.0 - 90.0 | °C | |
| Injection Pressure | 50.0 - 100 | MPa | |
| Holding Pressure | 30.0 - 80.0 | MPa | |
| Back Pressure | 0.00 - 0.500 | MPa | |
| Screw Speed | 50 - 120 | rpm | |
| Extrusion | Nominal Value | Unit | |
| Melt Temperature | 180 - 190 | °C | |
| Extrusion instructions | | | |

Standard extruders with grooved feed zone and short compression screws (minimum 25 D) will fit.

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

