

TECHNICAL DATA

POM

Product Demonstration



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Material Overview

It is a thermoplastic material with excellent fatigue resistance, creep resistance, self-lubricating properties and machinability. It can be used at temperature of -40°C – 100°C .

Advantages

- Good mechanical strength and dimensional stability
- Good machinability
- Good surface self-lubricating performance
- High surface hardness

Ideal Applications

- Mechanical transmission parts
- Precision mechanical parts
- Water-resistant parts
- Electronic and electrical parts

Technical Datasheet

项 目 Items	标准 Standard		
密度 Density	ASTM D792	g/cm ³	1.43
屈服拉伸强度 Tensile strength at yield	ASTM D638	Mpa	60
断裂伸长率 Elongation at break	ASTM D638	%	30
弯曲强度 Bending strength	ASTM 790	Mpa	100
弯曲模量 Flexural modulus	ASTM 790	Mpa	2800
邵氏硬度 Shore Hardness	ASTM D2240	D	85
冲击强度 Impact strength	ASTM D256	J/M	74
熔点 melting point	DSC	°C	165
热变形温度 Heat distortion temperature	ASTM D648	°C	130
长期工作温度 long-term operating temperature	—	°C	100
短期工作温度 Short-term operating temperature	—	°C	150
热传导率 Thermal conductivity	DIN 52612-1	W/(K·M)	0.31

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