



POM

Technical Data



◆ 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 .

◆ Advantage

- > 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

Items	Standard		
Density	ASTMD792	g/cm^3	1.43
Tensile strength at yield	ASTM D638	Mpa	60
Elongation at break	ASTM D638	%	30
Bending strength	ASTM 790	Mpa	100
Flexural modulus	ASTM 790	Mpa	2800
Shore Hardness	ASTM D2240	D	85
Impact strength	ASTM D256	J/M	74
Melting point	DSC	$^{\circ}\text{C}$	165
Heat distortion temperature	ASTM D648	$^{\circ}\text{C}$	130
Long-term operating temperature	/	$^{\circ}\text{C}$	100
Short-term operating temperature	/	$^{\circ}\text{C}$	150
Thermal conductivity	DIN 52612-1	$\text{W}/(\text{K}-\text{M})$	0.31

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