

聚甲醛POM MC270-HM 含矿物填料,尺寸稳定

产品名称	聚甲醛POM MC270-HM 含矿物填料,尺寸稳定
公司名称	墨澜中嘉（东莞市）塑胶科技有限公司
价格	.00/个
规格参数	品牌:POM 型号:MC270-HM 产地:美国泰科纳
公司地址	东莞常平麦元村物流大道西段美吉特一期5栋20号
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产品详情

赛钢（POM）是什么材料？具有哪些特性

[齿轮、连杆等用什么塑料材料合适。？](#)

1. POM的性能，POM是结晶型塑料，它的钢性很好，俗称“赛钢”。POM是一种坚韧有弹性的材料，即使在低温下仍有很好的抗蠕变特性、几何稳定性和抗冲击特性，它具有耐疲劳性、耐蠕变性、耐磨性、耐热性等优良的性能。

POM不易吸湿，比重为1.42g/cm³，收缩率2.1%（POM的高结晶程度导致它有相当高的收缩率，可高达到2%~3.5%，较大，对于各种不同的增强型材料有不同的收缩率），尺寸难控制，热变形温度为172℃。POM既有均聚物材料也有共聚物材料。

2. POM的工艺特点

POM加工前可不用干燥，好在加工过程中预热（100℃左右），对产品尺寸的稳定性有好处。POM的加工温度范围很窄（195-215℃），在炮筒内停留时间稍长或温度超过220℃就会分解（均聚物材料为190~230℃；共聚物材料为190~210℃）。螺杆转速不能过高，残量要少。

POM产品收缩大（为了减小成型后收缩率可选用高一些的模具温度），易产生缩水或变形。POM比热大，模温高（80-105℃），产品脱模后很烫，需防止烫伤手指。注射压力700~1200bar，POM宜在中压、中速、高模温条件下成型加工。

流道和浇口可以使用任何类型的浇口。如果使用隧道形浇口，则好使用较短的类型。对于均聚物材料建议使用热注嘴流道。对于共聚物材料既可使用内部的热流道也可使用外部热流道。

3.典型应用范围:

POM具有很低的摩擦系数和很好的几何稳定性，特别适合于制作齿轮和轴承。由于它还具有耐高温特性，因此还用于管道器件（管道阀门、泵壳体）。

CELCON MC270-HM CB34353 SAND

CELCON MC270-HM CB34787 IVORY

CELCON MC270-HM CC34821 DARK GRAY

CELCON MC270-HM CD3501 BLACK

CELCON MC270-HM CF3500 NATURAL

CELCON MC270-HM | POM | Mineral Reinforced

Description

Celcon MC270-HM is a high modulus, mineral coupled acetal copolymer. It utilizes a higher additive level to provide significant improvement in product stiffness and mold shrinkage and better warpage resistance than unfilled Celcon M270. Celcon MC270-HM is formulated to produce very flat, dimensionally stable parts.

Other Processing

Injection Molding

Standard reciprocating screw injection molding machines with a high compression screw (minimum 3:1 and preferably 4:1) and low back pressure (0.35 Mpa/50 PSI) are favored. Using a low compression screw (I.E. general purpose 2:1 compression ratio) can result in unmelted particles and poor melt homogeneity. Using a high back pressure to make up for a low compression ratio may lead to excessive shear heating and deterioration of the material.

Melt Temperature: Preferred range 182-199 (360-390). Melt temperature should never exceed 230 (450).

Mold Surface Temperature: Preferred range 82-93 (180-200) especially with wall thickness less than 1.5 mm (0.060 in.). May require mold temperature as high as 120 (250) to reproduce mold surface or to assure minimal molded in stress. Wall thickness greater than 3mm (1/8 in.) may use a cooler (65 /150) mold surface temperature and wall thickness over 6mm (1/4 in.) may use a cold mold surface down to 25 (80). In general, mold surface temperatures lower than 82 (180) may hinder weld line formation and produce a hazy surface or a surface with flow lines, pits and other included defects that can hinder part performance.

ISO Data	Mechanical properties	Value	Unit
Phys	Density	1570	kg/m
	Mold shrinkage - parallel	1.5	%
	Mold shrinkage - normal	1.3	
	Water absorption (23 -sat)	0.75	ISO 62
	Humidity absorption (23 /50%RH)	0.2	
Mech	Mechanical properties	Value	Unit
	Tensile modulus (1mm/min)	3750	MPa
	Tensile stress at yield (50mm/min)	45	
	Tensile strain at yield (50mm/min)	5	
	Flexural modulus (23)	3700	ISO 178
	Flexural strength (23)	77	
	Charpy notched impact strength @ 23	4.8	kJ/m
	Charpy notched impact strength @ -30	3.5	
Therm	Notched impact strength (Izod) @ 23	5.3	ISO 180/1A
	Thermal properties		
	Melting temperature (10 /min)	165	
	DTUL @ 1.8 MPa	105	ISO 75-1/-2
	Coeff.of linear therm. expansion (parallel)	0.6	E-4/
	Coeff.of linear therm. expansion (normal)	0.9	
SpecProd	Test specimen production		
	Processing conditions acc. ISO	9988-2	-

聚甲醛POM,pom MC270-HM ,含矿物填料pom尺寸稳定,pom塑料价格 , pom塑料米