POTICON OA30

Acetal (POM) Copolymer

Otsuka Chemical Co., Ltd.

Message:

The Poticon series features a potassium titanate micro-filler compounded in thermoplastic resins to provide outstanding micro-reinforcement and dimensional stability. The excellent surface smoothness of these compounds limits friction toward opposing materials, reducing wear and allowing for greaseless applications. Moreover, as Poticon diminishes damage toward the mold and metal die and offers excellent recyclability, it also decreases processing costs.

Advantages Microscopic reinforcement Superior friction sliding and wear reduction Excellent dimensional accuracy and surface smoothness Highly recyclable Applications Automotive Parts (gears, bearings) LED Reflectors Watch Parts (gears, ground plane) Camera (image stabilization parts) Sliding Parts (gears, wheel bearing) Camera Module Parts Motor Parts (cog-wheels, bearings) OA30 Property: High strength, High rigidity

UL YellowCard	E96773-253443		
	L90113-233443		
Features	High Dimensional Stability		
	Low friction coefficient		
	Rigidity, high		
	High strength		
	Recyclable materials		
Uses	LEDs		
	Gear		
	Application in Automobile Field		
	Camera application		
	Bearing		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.68	g/cm ³	ASTM D792
Molding Shrinkage			
Flow	0.70	%	
Transverse flow	1.4	%	
Water Absorption (Equilibrium)	0.20	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	90		ASTM D785

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	111	MPa	ASTM D638
Tensile Elongation (Break)	3.5	%	ASTM D638
Flexural Modulus	8800	MPa	ASTM D790
Flexural Strength	169	MPa	ASTM D790
Coefficient of Friction (vs. Steel - Dynamic)	0.28		
Abrasion Loss			
1	29.6	10^-3 mm³/N·km	
of counterpart ²	0.00	10^-3 mm³/N·km	
Heat Distortion	153	°C	ASTM D648
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	44	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
CLTE - Flow	3.0E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value		Test Method
Flame Rating	НВ		UL 94
Injection	Nominal Value	Unit	
Processing (Melt) Temp	185 - 215	°C	
Mold Temperature	60 - 100	°C	
Injection Pressure	70.0 - 100	MPa	
NOTE			
1.	Surface pressure: 1MPa		
2.	Slipping velocity: 0.3m/sec		

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