POTICON AT343

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)
AT343 Property: Slide

General Information			
Features	High Dimensional Stability Low friction coefficient Recyclable materials		
Uses	LEDs Gear Application in Automobile Field Camera application Bearing		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.53	g/cm³	ASTM D792
Molding Shrinkage			
Flow	1.6	%	
Transverse flow	2.1	%	
Water Absorption (Equilibrium)	0.20	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (M-Scale)	76		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength	65.0	MPa	ASTM D638
Tensile Elongation (Break)	4.0	%	ASTM D638

Flexural Modulus	5500	MPa	ASTM D790
Flexural Strength	103	MPa	ASTM D790
Coefficient of Friction (vs. Steel - Dynamic)	0.20		
Abrasion Loss			
-- [1]	3.10	10^-3 mm³/N·km	
of counterpart [2]	0.00	10^-3 mm³/N·km	
Heat Distortion	110	°C	ASTM D648
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact	36	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
CLTE - Flow	5.5E-5	cm/cm/°C	ASTM D696
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		

Recommended distributors for this material

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