# POTICON AT303

### 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) AT303 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	1.41	g/cm <sup>3</sup>	ASTM D792	
Molding Shrinkage				
Flow	2.5	%		
Transverse flow	2.7	%		
Water Absorption (Equilibrium)	0.20	%	ASTM D570	
Hardness	Nominal Value	Unit	Test Method	
Rockwell Hardness (M-Scale)	75		ASTM D785	
Mechanical	Nominal Value	Unit	Test Method	
Tensile Strength	58.0	MPa	ASTM D638	
Tensile Elongation (Break)	20	%	ASTM D638	

Flexural Modulus	2500	MPa	ASTM D790
Flexural Strength	83.0	MPa	ASTM D790
Coefficient of Friction (vs. Steel - Dynamic)	0.32		
Abrasion Loss			
1	1.10	10^-3 mm³/N·km	
of counterpart <sup>2</sup>	0.00	10^-3 mm³/N·km	
Heat Distortion	96	°C	ASTM D648
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	54	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
CLTE - Flow	1.2E-4	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		

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