

POTICON IT6B

Polyether Imide
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)
- IT6B Property: Dimension accuracy

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	1.57	g/cm ³	ASTM D792
Molding Shrinkage			
Flow	0.30	%	
Transverse flow	0.80	%	
Water Absorption (Equilibrium)	0.15	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	109		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	115	MPa	ASTM D638
Tensile Elongation (Break)	2.2	%	ASTM D638

Flexural Modulus	8600	MPa	ASTM D790
Flexural Strength	176	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	29	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
CLTE - Flow	2.2E-5	cm/cm/°C	ASTM D696
Heat Distortion	211	°C	ASTM D648
Injection	Nominal Value	Unit	
Processing (Melt) Temp	350 - 420	°C	
Mold Temperature	80 - 120	°C	
Injection Pressure	80.0 - 140	MPa	

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