

POTICON OB30

Polybutylene Terephthalate

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)
- OB30 Property: General-purpose

General Information			
UL YellowCard	E96773-253455		
Features	High Dimensional Stability		
	Low friction coefficient		
	Recyclable materials		
	General		
Uses	LEDs		
	Gear		
	Application in Automobile Field		
	General		
	Camera application		
	Bearing		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.61	g/cm ³	ASTM D792
Molding Shrinkage			
Flow	0.60	%	
Transverse flow	1.2	%	
Water Absorption (Equilibrium)	0.070	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	89		ASTM D785

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	115	MPa	ASTM D638
Tensile Elongation (Break)	4.0	%	ASTM D638
Flexural Modulus	8900	MPa	ASTM D790
Flexural Strength	174	MPa	ASTM D790
Coefficient of Friction (vs. Steel - Dynamic)	0.13		
Abrasion Loss			
-- ¹	22.4	10 ⁻³ mm ³ /N·km	
of counterpart ²	0.00	10 ⁻³ mm ³ /N·km	
Heat Distortion	190	°C	ASTM D648
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	41	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
CLTE - Flow	2.8E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	
Processing (Melt) Temp	240 - 270	°C	
Mold Temperature	60 - 100	°C	
Injection Pressure	50.0 - 100	MPa	
NOTE			
1.	Surface pressure: 1MPa		
2.	Slipping velocity: 0.3m/sec		

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