POTICON NTB935

Polyamide

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)
NTB935 Property: Low water absorption, Heat-resisting property, High strength, Dimension accuracy

General Information	
Features	Good Heat Resistance
	High Dimensional Stability
	Low friction coefficient
	High strength
	Recyclable materials
	Low or no water absorption
Uses	LEDs
	Gear
	Application in Automobile Field
	Camera application
	Bearing
Processing Method	Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.52	g/cm³	ASTM D792
Molding Shrinkage			
Flow	0.40	%	
Transverse flow	1.6	%	
Water Absorption (Equilibrium)	0.18	%	ASTM D570

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	99		ASTM D785

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	113	MPa	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus	11000	MPa	ASTM D790
Flexural Strength	205	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact	30	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
CLTE - Flow	1.5E-5	cm/cm/°C	ASTM D696
Heat Distortion	267	°C	ASTM D648
Injection	**Nominal Value**	**Unit**	
Processing (Melt) Temp	310 - 330	°C	
Mold Temperature	140 - 150	°C	
Injection Pressure	50.0 - 100	MPa	

Recommended distributors for this material

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WECHAT