POTICON PW36

Polypropylene

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)
PW36 Property: White, Conductive property

General Information			
Features	High Dimensional Stability Conductivity Low friction coefficient Recyclable materials		
Uses	LEDs Gear Application in Automobile Field Camera application Bearing		
Appearance	White		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.14	g/cm³	ASTM D792
Molding Shrinkage			
Flow	1.2	%	
Transverse flow	2.1	%	
Water Absorption (Equilibrium)	0.10	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (M-Scale)	32		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**

Tensile Strength	29.0	MPa	ASTM D638
Tensile Elongation (Break)	5.0	%	ASTM D638
Flexural Modulus	2500	MPa	ASTM D790
Flexural Strength	44.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	42	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
CLTE - Flow	4.3E-5	cm/cm/°C	ASTM D696
Heat Distortion	77	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+11	ohms·cm	ASTM D257
Injection	Nominal Value	Unit	
Processing (Melt) Temp	200 - 250	°C	
Mold Temperature	40 - 60	°C	
Injection Pressure	80.0 - 100	MPa	

Recommended distributors for this material

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WECHAT