POTICON AM2

Polyphenylene Sulfide

Otsuka Chemical Co., Ltd.

Message:

Hardness

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.

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)
AM2 Property: High strength, High rigidity, Slide, Conductive property

General Information UL YellowCard E96773-253492 Features High Dimensional Stability Conductivity Low friction coefficient Rigidity, high High strength **Recyclable materials** Uses LEDs Gear Application in Automobile Field Camera application Bearing Processing Method Injection molding Physical Nominal Value Unit Test Method g/cm³ Specific Gravity 1.68 ASTM D792 Molding Shrinkage 0.20 % Flow Transverse flow 0.70 % Water Absorption (Equilibrium) 0.080 % ASTM D570

Unit

Test Method

Nominal Value

Mechanical Tensile Strength Tensile Elongation (Break)	Nominal Value 157 3.0	Unit MPa	Test Method
-		МРа	
Tensile Elongation (Break)	3.0		ASTM D638
	5.0	%	ASTM D638
Flexural Modulus	14700	MPa	ASTM D790
Flexural Strength	201	MPa	ASTM D790
Coefficient of Friction (vs. Steel - Dynamic)	0.15		
Abrasion Loss			
1	7.10	10^-3 mm³/N·km	
of counterpart ²	0.100	10^-3 mm³/N·km	
Heat Distortion	235	°C	ASTM D648
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	29	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
CLTE - Flow	1.1E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+5	ohms·cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94
Injection	Nominal Value	Unit	
Processing (Melt) Temp	290 - 320	°C	
Mold Temperature	120 - 150	°C	
Injection Pressure	70.0 - 100	MPa	
NOTE			
1.	Surface pressure: 1MPa		
2.	Slipping velocity: 0.3m/sec		

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