POTICON RT8

Polyphenylene Sulfide

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)
RT8 Property: General-purpose

General Information			
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	1.74	g/cm³	ASTM D792
Molding Shrinkage			
Flow	0.30	%	
Transverse flow	0.80	%	
Water Absorption (Equilibrium)	0.020	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (M-Scale)	104		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**

Tensile Strength	153	MPa	ASTM D638
Tensile Elongation (Break)	2.4	%	ASTM D638
Flexural Modulus	13700	MPa	ASTM D790
Flexural Strength	225	MPa	ASTM D790
Coefficient of Friction (vs. Steel - Dynamic)	0.36		
Abrasion Loss			
-- [1]	195	10^-3 mm³/N·km	
of counterpart [2]	0.00	10^-3 mm³/N·km	
Heat Distortion	245	°C	ASTM D648
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact	20	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
CLTE - Flow	1.7E-5	cm/cm/°C	ASTM D696
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		

Recommended distributors for this material

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