

SD POLYCA™ CS5010

Polycarbonate

Sumika Styron Polycarbonate Limited

Message:

SD POLYCA™ CS series are abrasion resistant grades. These products show high abrasion resistance in addition to high heat resistance, mechanical properties and dimensional stability of polycarbonate resin. These products are suitable to the application where abrasion resistance is required such as gears, bearings and keyboard switches.

General Information			
Additive	PTFE lubricant		
Features	High Dimensional Stability		
	Good wear resistance		
	Heat resistance, high		
	Lubrication		
Uses	Gear		
	Switch		
	Bearing		
Part Marking Code	>PC+PTFE		
Physical	Nominal Value	Unit	Test Method
Density	1.26	g/cm ³	ISO 1183
Molding Shrinkage			ASTM D955
Flow	0.50 - 0.70	%	ASTM D955
Transverse flow	0.50 - 0.70	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.18	%	ASTM D570
PV Limit	1100	kg/cm/sec	JIS K7218
Wear Factor	5.0	mg	JIS K7218
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2300	MPa	ISO 527-2
Tensile Strength			
--	57.0	MPa	ASTM D638
--	60.0	MPa	ISO 527-2
Tensile Elongation			
Fracture	90	%	ASTM D638
Fracture	70	%	ISO 527-2
Flexural Modulus			
--	2110	MPa	ASTM D790
--	2100	MPa	ISO 178
Flexural Strength			
--	82.0	MPa	ASTM D790

--	85.0	MPa	ISO 178
Coefficient of Friction (Dynamic)	0.18		JIS K7218
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	15	kJ/m ²	ISO 179
Notched Izod Impact (23°C)	200	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, not annealed	140	°C	ASTM D648
1.8 MPa, not annealed	136	°C	ASTM D648
1.8 MPa, not annealed	126	°C	ISO 75-2/A
Linear thermal expansion coefficient			ASTM D696
Flow	7.0E-5	cm/cm/°C	ASTM D696
Lateral	7.0E-5	cm/cm/°C	ASTM D696

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

