

SD POLYCA™ PCX-3655

Polycarbonate Alloy

Sumika Styron Polycarbonate Limited

Message:

PCX-3655 is a high heat resistant phosphate type FR PC alloy. This product satisfies V-0 at 1.5mm thickness.

General Information			
Additive	Flame retardancy		
Features	Heat resistance, high		
	Flame retardancy		
Uses	Shell		
Part Marking Code	>PC+MBS FR(40)		
Physical	Nominal Value	Unit	Test Method
Density	1.20	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (250°C/2.16 kg)	17.0	cm ³ /10min	ISO 1133
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)	0.20	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2640	MPa	ISO 527-2
Tensile Strength			
--	59.0	MPa	ASTM D638
--	60.0	MPa	ISO 527-2
Tensile Elongation			
Fracture	80	%	ASTM D638
Fracture	90	%	ISO 527-2
Flexural Modulus			
--	2350	MPa	ASTM D790
--	2340	MPa	ISO 178
Flexural Strength	85.0	MPa	ASTM D790, ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	59	kJ/m ²	ISO 179
Notched Izod Impact (23°C)	640	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, not annealed	118	°C	ASTM D648
1.8 MPa, not annealed	106	°C	ISO 75-2/A

Linear thermal expansion coefficient			ASTM D696
Flow	6.0E-5	cm/cm/°C	ASTM D696
Lateral	6.0E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.5 mm	V-0		UL 94
	V-0		
2.0 mm	5VB		UL 94
	V-0		
3.0 mm	5VB		UL 94

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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

