CYCOLOY™ FR Resin C6200 -



Polycarbonate + ABS **SABIC**



Technical Data

Product Description			
Non-chlorinated, nombrominated	flame retardant PC/ABS offering balan	ced heat, flow and impact to meet va	rious application needs.
General			
Material Status	Commercial: Active		
UL Yellow Card ¹	• E121562-221037		
Search for UL Yellow Card	• SABIC		
Availability	Latin America	North America	
Uses	 Appliances Construction Applications Electrical Parts Electrical/Electronic Applications Electronic Displays Fluid Handling 	 Lighting Applications Medical Devices Medical/Healthcare Applications Military/Defense Applications Nuclear Power Applications Optical Applications 	 Personal Care Pharmaceuticals Rail Applications Recreational Vehicle Applications Surgical Instruments Water Management
Multi-Point Data	Coefficient of Thermal Expa Elastic Modulus vs. Tempera Flexural DMA (ASTM D5022 Shear DMA (ASTM D4065) Specific Heat vs. Temperatu Specific Volume vs. Tempera Tensile Creep (ASTM D2990 Tensile Fatigue Tensile Stress vs. Strain (ASTM D4065) Thermal Conductivity vs. Te Viscosity vs. Shear Rate (ASTM D4065)	3) ure (ASTM E1269) rature (PVT) 0) STM D638) emperature (ASTM E1530)	

Physical	Nominal Value Unit	Test Method ASTM D792	
Density / Specific Gravity	1.18 g/cm ³		
Melt Mass-Flow Rate (MFR) (260°C/2.16 kg)	15 g/10 min	ASTM D1238	
Spiral Flow ^{3, 4}	68.6 cm		
Molding Shrinkage		Internal Method	
Across Flow: 3.20 mm	0.40 to 0.60 %		
Flow: 3.20 mm	0.40 to 0.60 %		
Mechanical	Nominal Value Unit	Test Method	
Tensile Strength ⁵ (Yield)	66.0 MPa	ASTM D638	
Tensile Elongation ⁵ (Break)	50 %	ASTM D638	
Flexural Modulus ⁶ (100 mm Span)	2680 MPa	ASTM D790	
Flexural Strength ⁶ (Yield, 100 mm Span)	103 MPa	ASTM D790	
Impact	Nominal Value Unit	Test Method	
Notched Izod Impact (23°C)	530 J/m	ASTM D256	
Instrumented Dart Impact		ASTM D3763	
-30°C, Energy at Peak	54.0 J		
23°C, Energy at Peak	61.0 J		

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Nominal Value Unit	Test Method
	ASTM D648
87.0 °C	
90.0 °C	
85.0 °C	UL 746B
85.0 °C	UL 746B
85.0 °C	UL 746B
Nominal Value Unit	Test Method
> 1.0E+15 ohms	IEC 60093
> 1.0E+15 ohms·cm	IEC 60093
	IEC 60243-1
35 kV/mm	
25 kV/mm	
17 kV/mm	
	IEC 60250
2.80	
2.80	
2.70	
	IEC 60250
4.0E-3	
4.0E-3	
8.0E-3	
PLC 6	ASTM D495
PLC 2	UL 746A
PLC 0	UL 746A
PLC 3	UL 746A
PLC 2	UL 746A
Nominal Value Unit	Test Method
	UL 94
НВ	
V-1	
V-0	
5VB	
5VA	
Nominal Value Unit	
245 to 275 °C	
270 10 270 0	
245 to 275 °C	
	87.0 °C 90.0 °C 85.0 °C 85.0 °C 85.0 °C 85.0 °C Nominal Value Unit > 1.0E+15 ohms > 1.0E+15 ohms cm 35 kV/mm 17 kV/mm 2.80 2.80 2.70 4.0E-3 4.0E-3 8.0E-3 PLC 6 PLC 2 PLC 0 PLC 3 PLC 2 PLC 0 PLC 3 PLC 2 Nominal Value Unit HB V-1 V-0 5VB 5VA Nominal Value Unit 80 to 90 °C 3.0 to 4.0 hr 0.040 % 30 to 80 % 220 to 255 °C 220 to 275 °C 245 to 275 °C

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ABIC	www.ulprospector.com
Injection	Nominal Value Unit
Back Pressure	0.300 to 0.700 MPa
Screw Speed	40 to 70 rpm
Vent Depth	0.038 to 0.076 mm
Injection Notes	

• Drying Time (Cumulative): 8 hr

Notes

¹ A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

² Typical properties:	these	are no	t to be	construed	as	specifications
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³ Mold Temperature: 260°C

⁴ 10 ips, 3.175 x 1524 mm

⁵ Type I, 50 mm/min

^{6 2.6} mm/min

⁷ Tungsten Electrode

⁸ Surface

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SABIC



Where to Buy

Supplier

SABIC

Web: http://www.sabic.com/

Distributor

Bamberger Amco Polymers Telephone: 800-262-6685

Web: https://bapolymers.com/ Availability: North America

Bamberger Polymers, Inc.

Bamberger Polymer's is a global distribution company. Contact Bamberger Polymers for availability of individual products by country.

Telephone: 516-622-3600

Web: http://www.bambergerpolymers.com/ Availability: Canada, Mexico, United States

Conventus Polymers Telephone: 973-343-7669

Web: http://www.conventuspolymers.com/

Availability: North America

Nexeo Plastics

Nexeo Plastics is leading global resin distributor with the technical resources you need to overcome material challenges. Visit us on the web at

www.nexeoplastics.com. Telephone: 833-446-3936

Web: https://www.nexeoplastics.com/

Availability: North America

