

CYCOLOY™ C6200 resin

Polycarbonate + ABS

SABIC Innovative Plastics

Message:

Non-chlorinated, nont brominated flame retardant PC/ABS offering balanced heat, flow and impact to meet various application needs.

General Information			
UL YellowCard	E45587-236937	E207780-228475	
Additive	Flame retardancy		
Features	Chlorine Free		
	Impact resistance, good		
	Good liquidity		
	Heat resistance, medium		
	Bromine-free		
	Flame retardancy		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.18	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (260°C/2.16 kg)	15	g/10 min	ASTM D1238
Spiral Flow	68.6	cm	Internal method
Molding Shrinkage			Internal method
Flow: 3.20mm	0.40 - 0.60	%	Internal method
Transverse flow: 3.20mm	0.40 - 0.60	%	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	66.9	MPa	ASTM D638
Tensile Elongation ² (Break)	50	%	ASTM D638
Flexural Modulus ³ (100 mm Span)	2690	MPa	ASTM D790
Flexural Strength ⁴ (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 Load	54.2	J	ASTM D3763
23°C, Energy at Peak Load	61.0	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, unannealed, 3.20mm	87.8	°C	ASTM D648
1.8 MPa, unannealed, 6.40mm	90.6	°C	ASTM D648
RTI Elec	85.0	°C	UL 746

RTI Imp	85.0	°C	UL 746
RTI	85.0	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+15	ohms	IEC 60093
Volume Resistivity	> 1.0E+15	ohms·cm	IEC 60093
Dielectric Strength			IEC 60243-1
0.800mm, in oil	35	kV/mm	IEC 60243-1
1.60mm, in oil	25	kV/mm	IEC 60243-1
3.20mm, in oil	17	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
50 Hz	2.80		IEC 60250
60 Hz	2.80		IEC 60250
1 MHz	2.70		IEC 60250
Dissipation Factor			IEC 60250
50 Hz	4.0E-3		IEC 60250
60 Hz	4.0E-3		IEC 60250
1 MHz	8.0E-3		IEC 60250
Arc Resistance ⁵	PLC 6		ASTM D495
Comparative Tracking Index (CTI)	PLC 2		UL 746
High Amp Arc Ignition (HAI)	PLC 0		UL 746
High Voltage Arc Tracking Rate (HVTR)	PLC 3		UL 746
Hot-wire Ignition (HWI)	PLC 2		UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.711 mm	HB		UL 94
1.22 mm	V-1		UL 94
1.47 mm	V-0		UL 94
2.01 mm	5VB		UL 94
3.40 mm	5VA		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	82.0 - 88.0	°C	
Drying Time	3.0 - 4.0	hr	
Drying Time, Maximum	8.0	hr	
Suggested Max Moisture	0.040	%	
Suggested Shot Size	30 - 80	%	
Rear Temperature	221 - 254	°C	
Middle Temperature	221 - 277	°C	
Front Temperature	243 - 277	°C	
Nozzle Temperature	243 - 277	°C	
Processing (Melt) Temp	243 - 277	°C	
Mold Temperature	60.0 - 82.0	°C	
Back Pressure	0.345 - 0.689	MPa	

Screw Speed	40 - 70	rpm
Vent Depth	0.038 - 0.076	mm
NOTE		
1.	Type 1, 50mm/min	
2.	Type 1, 50mm/min	
3.	2.6 mm/min	
4.	2.6 mm/min	
5.	Tungsten electrode	

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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

