

CYCOLOY™ C6600 resin

Polycarbonate + ABS

SABIC Innovative Plastics Asia Pacific

Message:

CYCOLOY C6600 is a FR PC+ABS of nonbrominated, nonchlorinated flame retardant systems with balanced flow, impact and hydrolytic stability for a wide variety of applications including business equipment, monitors, enclosures, among others.

General Information			
UL YellowCard	E45587-236940	E207780-228478	
Additive	Flame Retardant		
Features	Bromine Free		
	Chlorine Free		
	Flame Retardant		
	Good Flow		
	Good Impact Resistance		
	Hydrolytically Stable		
Uses	Business Equipment		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.19	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (260°C/2.16 kg)	22	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.40 to 0.60	%	Internal Method
Water Absorption (24 hr)	0.11	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	3000	MPa	ASTM D638
Tensile Strength ²			ASTM D638
Yield	63.0	MPa	
Break	49.0	MPa	
Tensile Elongation ³			ASTM D638
Yield	4.0	%	
Break	80	%	
Flexural Modulus ⁴ (50.0 mm Span)	2620	MPa	ASTM D790
Flexural Strength ⁵ (Yield, 50.0 mm Span)	94.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	550	J/m	ASTM D256
Instrumented Dart Impact			ASTM D3763
-30°C, Total Energy	51.0	J	
23°C, Total Energy	51.0	J	
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 6.40 mm	98.0	°C	
1.8 MPa, Unannealed, 3.20 mm	83.0	°C	
1.8 MPa, Unannealed, 6.40 mm	90.0	°C	
Vicat Softening Temperature	99.0	°C	ASTM D1525 ⁶
RTI Elec	80.0	°C	UL 746
RTI Imp	70.0	°C	UL 746
RTI Str	80.0	°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
Electric Strength (3.20 mm, in Oil)	17	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
50 Hz	2.70		
60 Hz	2.70		
1 MHz	2.70		
Dissipation Factor			IEC 60250
50 Hz	4.0E-3		
60 Hz	4.0E-3		
1 MHz	6.0E-3		
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.750 mm	V-2		
1.50 mm	V-0		
2.00 mm	5VB		
Injection	Nominal Value	Unit	
Drying Temperature	82.0 to 88.0	°C	
Drying Time	3.0 to 4.0	hr	
Drying Time, Maximum	8.0	hr	
Suggested Max Moisture	0.040	%	
Suggested Shot Size	30 to 80	%	
Rear Temperature	221 to 254	°C	
Middle Temperature	221 to 277	°C	
Front Temperature	243 to 277	°C	
Nozzle Temperature	243 to 277	°C	
Processing (Melt) Temp	243 to 277	°C	
Mold Temperature	60.0 to 82.0	°C	
Back Pressure	0.345 to 0.689	MPa	
Screw Speed	40 to 70	rpm	
Vent Depth	0.038 to 0.076	mm	
NOTE			
1.	50 mm/min		

2.	Type I, 50 mm/min
3.	Type I, 50 mm/min
4.	1.3 mm/min
5.	1.3 mm/min
6.	Rate B (120°C/h), Loading 2 (50 N)

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