

CYCOLOY™ C6600 resin

丙烯腈丁二烯苯乙烯+聚碳酸酯

SABIC Innovative Plastics Europe



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Technical Data

产品说明

Flame retardant PC/ABS blend using non-brominated and non-chlorinated flame retardant systems, offering hydrolytic stability and excellent flow for a wide variety of thin wall or large size applications including business equipment, enclosures, among others.

总体

材料状态	• 已商用：当前有效		
资料 ¹	• Technical Datasheet		
UL 黄卡 ²	• E45329-236722		
搜索 UL 黄卡	• SABIC Innovative Plastics Europe • CYCOLOY™		
供货地区	• 欧洲		
添加剂	• 阻燃		
性能特点	• Chlorine Free • 良好的流动性	• 水解稳定 • 无溴	• 阻燃性能
用途	• 薄壁包装	• 型号	• 营业设备
RoHS 合规性	• RoHS 合规		
加工方法	• 注射成型		

物理性能	额定值 (英制)	额定值 (公制)	测试方法
密度	1.19 g/cm ³	1.19 g/cm ³	ISO 1183
溶化体积流率 (MVR) (260°C/2.16 kg)	0.976 in ³ /10min	16.0 cm ³ /10min	ISO 1133
收缩率 - 流动 ⁴	0.0040 到 0.0060 in/in	0.40 到 0.60 %	Internal Method
吸水率			ISO 62
饱和, 73°F (23°C)	0.60 %	0.60 %	
平衡, 73°F (23°C), 50% RH	0.20 %	0.20 %	
机械性能	额定值 (英制)	额定值 (公制)	测试方法
拉伸模量	392000 psi	2700 MPa	ISO 527-2/1
拉伸应力			ISO 527-2/50
屈服	8700 psi	60.0 MPa	
断裂	7250 psi	50.0 MPa	
拉伸应变			ISO 527-2/50
屈服	4.0 %	4.0 %	
断裂	> 50 %	> 50 %	
弯曲模量 ⁵	392000 psi	2700 MPa	ISO 178
弯曲强度 ^{5, 6}	13100 psi	90.0 MPa	ISO 178
冲击性能	额定值 (英制)	额定值 (公制)	测试方法
简支梁缺口冲击强度			
-22°F (-30°C) ⁷	5.7 ft-lb/in ²	12 kJ/m ²	ISO 179/1eA
-22°F (-30°C) ⁸	4.8 ft-lb/in ²	10 kJ/m ²	ISO 179/1eA
73°F (23°C) ⁷	7.1 ft-lb/in ²	15 kJ/m ²	ISO 179/1eA
悬臂梁缺口冲击强度			
-22°F (-30°C) ⁹	5.7 ft-lb/in ²	12 kJ/m ²	ISO 180/1A
-22°F (-30°C) ¹⁰	4.8 ft-lb/in ²	10 kJ/m ²	ISO 180/1A
73°F (23°C) ⁹	7.1 ft-lb/in ²	15 kJ/m ²	ISO 180/1A
硬度	额定值 (英制)	额定值 (公制)	测试方法
洛氏硬度 (R 计秤)	122	122	ISO 2039-2
球压硬度 (H 358/30)	16000 psi	110 MPa	ISO 2039-1

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热性能	额定值 (英制)	额定值 (公制)	测试方法
热变形温度 ¹¹			
66 psi (0.45 MPa), 未退火, 3.94 in (100 mm) 跨距	194 °F	90.0 °C	ISO 75-2/Be
264 psi (1.8 MPa), 未退火, 3.94 in (100 mm) 跨距	176 °F	80.0 °C	ISO 75-2/Ae
维卡软化温度			
--	203 °F	95.0 °C	ISO 306/B50
--	225 °F	107 °C	ISO 306/B120
Ball Pressure Test (167°F (75°C))	Pass	Pass	IEC 60695-10-2
线形膨胀系数			ISO 11359-2
流动: -40 到 104°F (-40 到 40°C)	0.000042 in/in/°F	0.000075 cm/cm/°C	
流动: 73 到 140°F (23 到 60°C)	0.000044 in/in/°F	0.000080 cm/cm/°C	
横向: -40 到 104°F (-40 到 40°C)	0.000042 in/in/°F	0.000075 cm/cm/°C	
横向: 73 到 140°F (23 到 60°C)	0.000044 in/in/°F	0.000080 cm/cm/°C	
导热系数	1.4 Btu·in/hr/ft²/°F	0.20 W/m/K	ISO 8302
RTI Elec	176 °F	80.0 °C	UL 746
RTI Imp	158 °F	70.0 °C	UL 746
RTI Str	176 °F	80.0 °C	UL 746
电气性能	额定值 (英制)	额定值 (公制)	测试方法
表面电阻率	> 1.0E+15 ohm	> 1.0E+15 ohm	IEC 60093
体积电阻率	> 1.0E+15 ohm·cm	> 1.0E+15 ohm·cm	IEC 60093
耐电强度			IEC 60243-1
0.0315 in (0.800 mm), 在油中	890 V/mil	35 kV/mm	
0.0630 in (1.60 mm), 在油中	640 V/mil	25 kV/mm	
0.126 in (3.20 mm), 在油中	430 V/mil	17 kV/mm	
相对电容率			IEC 60250
50 Hz	2.70	2.70	
60 Hz	2.70	2.70	
1 MHz	2.70	2.70	
耗散因数			IEC 60250
50 Hz	0.0040	0.0040	
60 Hz	0.0040	0.0040	
1 MHz	0.0060	0.0060	
相比耐漏电起痕指数(CTI)	PLC 2	PLC 2	UL 746
可燃性	额定值 (英制)	额定值 (公制)	测试方法
UL 阻燃等级			UL 94
0.0295 in (0.750 mm)	V-2	V-2	
0.0591 in (1.50 mm)	V-0	V-0	
0.0787 in (2.00 mm)	5VB	5VB	
灼热丝易燃指数 (0.126 in (3.20 mm))	1760 °F	960 °C	IEC 60695-2-12
极限氧指数	32 %	32 %	ISO 4589-2
注射	额定值 (英制)	额定值 (公制)	
干燥温度	176 到 194 °F	80.0 到 90.0 °C	
干燥时间	2.0 到 4.0 hr	2.0 到 4.0 hr	
料筒温度	140 到 176 °F	60.0 到 80.0 °C	
螺筒后部温度	446 到 482 °F	230 到 250 °C	
螺筒中部温度	464 到 500 °F	240 到 260 °C	
螺筒前部温度	482 到 518 °F	250 到 270 °C	
射嘴温度	482 到 518 °F	250 到 270 °C	
加工 (熔体) 温度	482 到 518 °F	250 到 270 °C	
模具温度	158 到 185 °F	70.0 到 85.0 °C	

备注

¹ 通过这些链接您能够访问供应商资料。我们尽量保证及时更新资料；不过您可以从供应商处了解最新资料。
² UL 黄卡含有 UL 验证的易燃性和电气特性。UL IDES 持续努力在 Prospector 中将黄卡链接至单个塑料材料，然而此列表可能未包括所有相应链接。重要的是，我们对 Prospector 中找到的这些黄卡和塑料材料之间的关联进行验证。如需完整的黄卡列表，请访问 UL 黄卡搜索。
³ 一般属性：这些不能被视为规格。
⁴ Tensile Bar
⁵ 0.079 in/min (2.0 mm/min)
⁶ Yield
⁷ 80*10*3 sp=62mm
⁸ 80*10*4 sp=62mm
⁹ 80*10*3
¹⁰ 80*10*4
¹¹ 120*10*4 mm

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SABIC Innovative Plastics Europe

购买地点

供应商

SABIC Innovative Plastics Europe

, Netherlands

电话: +36-1-238-5060

Web: <http://www.sabic-ip.com/>

分销商

GUZMAN GLOBAL S.L

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Web: <http://www.grupoguzman.com/>

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