Covestro Apec® DP9-9343 High-Heat Polycarbonate, UV Stabilized

Polymer,Thermoplastic,Polycarbonate (PC),Polycarbonate, High Heat

Covestro

产品说明

Information provided by Bayer Corporation, Plastics DivisionAs of 1 September 2015, Bayer MaterialScience was separated from Bayer AG and has officially adopted its new name – Covestro. This product was discontinued prior to the separation.

物理性能	额定值 (公制)	额定值 (英制)	测试方法
密度	1.17 g/cc	0.0423 lb/in³	ASTM D792
吸水率	0.20 %	0.20 %	24 hour immersion; ASTM D570
线性成型收缩率	0.0070 - 0.0080 cm/cm	0.0070 - 0.0080 in/in	ASTM D955
熔体流动速率	15 g/10 min @Load 2.16 kg, Temperature 330 °C	15 g/10 min @Load 4.76 lb, Temperature 626 °F	ASTM D1238
机械性能	**额定值 (公制)**	**额定值 (英制)**	**测试方法**
洛氏硬度(M 级)	83	83	ASTM D785
洛氏硬度(R 级)	127	127	ASTM D785
极限抗拉强度	64.0 MPa	9280 psi	ASTM D638
抗张强度(屈服)	66.0 MPa	9570 psi	ASTM D638
伸长率 (断裂)	80 %	80 %	ASTM D638
屈服伸长率	6.0 %	6.0 %	ASTM D638
拉伸模量	2.20 GPa	319 ksi	ASTM D638
弯曲强度	86.0 MPa	12500 psi	ASTM D790
弯曲模量	2.28 GPa	331 ksi	ASTM D790
悬壁梁缺口冲击强度	3.20 J/cm @Thickness 3.17 mm	5.99 ft-lb/in @Thickness 0.125 in	ASTM D256
悬壁梁无缺口冲击强度	NB	NB	ASTM D256
	NB @Temperature -40.0 °C	NB @Temperature -40.0 °F	ASTM D256
电气性能	**额定值 (公制)**	**额定值 (英制)**	**测试方法**
电阻率	>= 1.00e+16 ohm-cm	>= 1.00e+16 ohm-cm	ASTM D257
表面电阻	>= 1.00e+16 ohm	>= 1.00e+16 ohm	ASTM D257
介电常数	2.9 @Frequency 60 Hz	2.9 @Frequency 60 Hz	ASTM D150
	2.9 @Frequency 1e+6 Hz	2.9 @Frequency 1e+6 Hz	ASTM D150
介电强度	>= 16.0 kV/mm @Thickness 3.17 mm	>= 406 kV/in @Thickness 0.125 in	ASTM D149
耗散因数	0.0010 @Frequency 60 Hz	0.0010 @Frequency 60 Hz	ASTM D150
	0.010 @Frequency 1e+6 Hz	0.010 @Frequency 1e+6 Hz	ASTM D150
热性能	**额定值 (公制)**	**额定值 (英制)**	**测试方法**
线性热膨胀系数	70.0 µm/m-°C @Temperature 20.0 °C	38.9 µin/in-°F @Temperature 68.0 °F	ASTM D696
载荷下热变形温度(0.46 MPa)	162 °C @Thickness 3.20 mm	324 °F @Thickness 0.126 in	ASTM D648
载荷下热变形温度(1.8 MPa)	150 °C @Thickness 3.17 mm	302 °F @Thickness 0.125 in	ASTM D648
维卡软化温度	172 °C	342 °F	Rate B; ASTM D1525
可燃性(UL94)	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	
	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	
极限氧指数	24 %	24 %	ASTM D2863
光学性能	**额定值 (公制)**	**额定值 (英制)**	**测试方法**
折射率	1.578	1.578	ASTM D542
雾度	1.0 % @Thickness 3.17 mm	1.0 % @Thickness 0.125 in	ASTM D1003
Transmission, Visible	88 % @Thickness 3.20 mm	88 % @Thickness 0.126 in	ASTM D1003

加工性能	额定值 (公制)	额定值 (英制)	测试方法
加工(熔体)温度	310 - 330 °C	590 - 626 °F	