

DURACON® SW-01

聚甲醛 (POM) 共聚物 + PE

Polyplastics Co., Ltd.



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Technical Data

产品说明

High Sliding

总体

材料状态	• 已商用 : 当前有效
资料 ¹	• Processing - Molding (English) • Technical Datasheet (English)
UL 黄卡 ²	• E45034-235800
搜索 UL 黄卡	• Polyplastics Co., Ltd. • DURACON®
供货地区	• 北美洲 • 欧洲 • 亚太地区
填料/增强材料	• 碳酸钙填料, 10% 填料按重量
添加剂	• 润滑剂
性能特点	• 经润滑
UL 档案号	• E45034
形式	• 颗粒料
加工方法	• 注射成型
部件标识代码 (ISO 11469)	• >POM+PE-KD10<

物理性能	额定值 (英制)	额定值 (公制)	测试方法
密度	1.42 g/cm ³	1.42 g/cm ³	ISO 1183
吸水率 (73°F (23°C), 24 hr)	0.60 %	0.60 %	ISO 62
机械性能	额定值 (英制)	额定值 (公制)	测试方法
拉伸应力	7250 psi	50.0 MPa	ISO 527-2
拉伸应变 (断裂)	20 %	20 %	ISO 527-2
弯曲模量	363000 psi	2500 MPa	ISO 178
弯曲强度	10900 psi	75.0 MPa	ISO 178
摩擦系数			JIS K7218
vs. Unknown - Dynamic ⁴	0.21	0.21	
与钢 - 动态 ⁵	0.14	0.14	
Wear Factor			JIS K7218
140 psi (0.98 MPa), 59 ft/min (0.30 m/sec) ⁶	< 0.50 $\frac{10^{-10}}{\text{in}^3 \cdot \text{min}/\text{ft} \cdot \text{lb} \cdot \text{hr}}$	< 1.0 $10^{-8} \text{ mm}^3/\text{N} \cdot \text{m}$	
140 psi (0.98 MPa), 59 ft/min (0.30 m/sec) ⁷	7.9 $\frac{10^{-10}}{\text{in}^3 \cdot \text{min}/\text{ft} \cdot \text{lb} \cdot \text{hr}}$	16 $10^{-8} \text{ mm}^3/\text{N} \cdot \text{m}$	
8.7 psi (0.060 MPa), 30 ft/min (0.15 m/sec) ⁸	200 $\frac{10^{-10}}{\text{in}^3 \cdot \text{min}/\text{ft} \cdot \text{lb} \cdot \text{hr}}$	400 $10^{-8} \text{ mm}^3/\text{N} \cdot \text{m}$	
8.7 psi (0.060 MPa), 30 ft/min (0.15 m/sec) ⁹	450 $\frac{10^{-10}}{\text{in}^3 \cdot \text{min}/\text{ft} \cdot \text{lb} \cdot \text{hr}}$	900 $10^{-8} \text{ mm}^3/\text{N} \cdot \text{m}$	
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	2.6 ft-lb/in ²	5.4 kJ/m ²	ISO 179/1eA
热性能	额定值 (英制)	额定值 (公制)	测试方法
热变形温度 (264 psi (1.8 MPa), 未退火)	176 °F	80.0 °C	ISO 75-2/A
线形膨胀系数			No Standard
流动: 73 到 131°F (23 到 55°C)	0.000061 in/in/°F	0.00011 cm/cm/°C	
横向: 73 到 131°F (23 到 55°C)	0.000061 in/in/°F	0.00011 cm/cm/°C	
电气性能	额定值 (英制)	额定值 (公制)	测试方法
体积电阻率	2.0E+14 ohm·cm	2.0E+14 ohm·cm	IEC 60093
耐电强度 (0.118 in (3.00 mm))	460 V/mil	18 kV/mm	IEC 60243-1
可燃性	额定值 (英制)	额定值 (公制)	测试方法
UL 阻燃等级	HB	HB	UL 94

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上次更新 : 2013/1/18

补充信息	额定值 (英制)	额定值 (公制)
Color Number	CF2001/CD3501	CF2001/CD3501

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	3.0 到 4.0 hr	3.0 到 4.0 hr
加工 (熔体) 温度	374 到 410 °F	190 到 210 °C
模具温度	140 到 176 °F	60.0 到 80.0 °C
注塑温度	7110 到 14200 psi	49.0 到 98.0 MPa
螺杆转速	100 到 150 rpm	100 到 150 rpm

注射说明

Injection speed: 5-50 mm/s
 Injection Holding pressure: Gate sealing time + alpha
 Cooling: Plasticizing time or ejection capable time

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 vs. M90-44, 0.06 MPa, 15 cm/s
- ⁵ 0.98 MPa, 30 cm/s
- ⁶ vs C-Steel, Steel Side
- ⁷ vs C-Steel, Material Side
- ⁸ vs M90-44, Material Side
- ⁹ vs M90-44, M90-44 Side

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Polyplastics Co., Ltd.

购买地点

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– Birgit Elvardt Bader, Production Manager, Micoctron

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