

DuPont™ Surlyn® 7930 Ionomer Resin, Lithium

Polymer,Thermoplastic,Ionomer,Ionomer, Molded

DuPont

产品说明

Surlyn® 7930 thermoplastic resin is an advanced ethylene/methacrylic acid (E/MAA) copolymer, in which the MAA acid groups have been partially neutralized with lithium ions. The amount of MAA and neutralization levels for this grade are optimized to deliver low temperature toughness, excellent clarity, and extra stiffness compared with other grades of Surlyn®. The resin can be injection or blow molded, and is processable by extrusion into sheets or shapes. Typical performance properties are shown below:Data provided by the manufacturer.

物理性能	额定值 (公制)	额定值 (英制)	测试方法
密度	0.940 g/cc	0.0340 lb/in³	ASTM D792
熔体流动速率	1.8 g/10 min @ Load 2.16 kg, Temperature 190 °C	1.8 g/10 min @ Load 4.76 lb, Temperature 374 °F	condition E; ASTM D1238
机械性能	额定值 (公制)	额定值 (英制)	测试方法
肖氏硬度 (邵氏 D)	68	68	ASTM D2240
极限抗拉强度	26.2 MPa	3800 psi	ASTM D638
抗张强度(屈服)	19.3 MPa	2800 psi	50 mm/min cross speed; ASTM D638
伸长率 (断裂)	290 %	290 %	ASTM D638
弯曲模量	0.460 GPa	66.7 ksi	ASTM D790
悬臂梁缺口冲击强度	NB	NB	ASTM D256
拉伸冲击强度	340 kJ/m²	162 ft-lb/in²	ASTM D1822S
热性能	额定值 (公制)	额定值 (英制)	测试方法
熔融温度	89.0 °C	192 °F	DSC
载荷下热变形温度(0.46 MPa)	46.0 °C	115 °F	ASTM D648
维卡软化温度	62.0 °C	144 °F	Rate B, ASTM D1525-70
光学性能	额定值 (公制)	额定值 (英制)	测试方法
雾度	9.0 % @ Thickness 6.40 mm	9.0 % @ Thickness 0.252 in	ASTM D1003A