

DuPont™ Surlyn® 7930 Ionomer Resin, Lithium

Category : Polymer , Thermoplastic , Ionomer , Ionomer, Molded

Material Notes:

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.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Surlyn-7930-Ionomer-Resin-Lithium.php

Physical Properties	Metric	English	Comments
Density	0.940 g/cc	0.0340 lb/in ³	ASTM D792
Melt Flow	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

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	68	68	ASTM D2240
Tensile Strength, Ultimate	26.2 MPa	3800 psi	ASTM D638
Tensile Strength, Yield	19.3 MPa	2800 psi	50 mm/min cross speed; ASTM D638
Elongation at Break	290 %	290 %	ASTM D638
Flexural Modulus	0.460 GPa	66.7 ksi	ASTM D790
Izod Impact, Notched	NB	NB	ASTM D256
Tensile Impact Strength	340 kJ/m ²	162 ft-lb/in ²	ASTM D1822S

Thermal Properties	Metric	English	Comments
Melting Point	89.0 °C	192 °F	DSC
Deflection Temperature at 0.46 MPa (66 psi)	46.0 °C	115 °F	ASTM D648
Vicat Softening Point	62.0 °C	144 °F	Rate B, ASTM D1525-70

Optical Properties	Metric	English	Comments
Haze	9.0 % @Thickness 6.40 mm	9.0 % @Thickness 0.252 in	ASTM D1003A

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