

DuPont™ Surlyn® 7940 Ionomer Resin, Lithium

Category : Polymer , Thermoplastic , Ionomer , Ionomer, Molded

Material Notes:

Surlyn® 7940 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 extra clarity and stiffness compared with other grades of Surlyn®. The resin can be injection or blow molded, and is processable by extrusion into sheets or shapes. Data provided by the manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Surlyn-7940-Ionomer-Resin-Lithium.php

Physical Properties	Metric	English	Comments
Density	0.940 g/cc	0.0340 lb/in³	ASTM D792
Melt Flow	2.6 g/10 min @Load 2.16 kg, Temperature 190 °C	2.6 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	15.2 MPa	2200 psi	50 mm/min cross speed; ASTM D638
Elongation at Break	285 %	285 %	ASTM D638
Flexural Modulus	0.420 GPa	60.9 ksi	ASTM D790
Izod Impact, Notched	NB	NB	ASTM D256
Tensile Impact Strength	460 kJ/m²	219 ft-lb/in²	ASTM D1822S

Thermal Properties	Metric	English	Comments
Melting Point	91.0 °C	196 °F	DSC
Deflection Temperature at 0.46 MPa (66 psi)	46.0 °C	115 °F	ASTM D648
Vicat Softening Point	63.0 °C	145 °F	Rate B, ASTM D1525-70

Optical Properties	Metric	English	Comments
Haze	4.0 % @Thickness 6.40 mm	4.0 % @Thickness 0.252 in	ASTM D1003A

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