



## DuPont™ Surlyn® 7930

### Description

Product Description

DuPont™ 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.

### Product Characteristics

Processing Method

- Injection Molding
- Blow Molding
- Extrusion, Sheet

Material Status

- Commercial: Active

Availability

- Globally

Cation Type

- Li

Uses

- not yet determined

Manufacturer / Supplier

- DuPont Packaging & Industrial Polymers

### Properties

#### Physical

Density

**Nominal Values**  
0.94g/cm<sup>3</sup>

**Test Method**  
ASTM D792 – ISO 1183

Melt Flow Rate (2.16kg)

1.8g/10 min

ASTM D1238 – ISO 1133

#### Thermal

Melting Point (DSC)

**Nominal Values**  
192°F (89°C)

**Test Method**  
ASTM D3418 – ISO 3146

Vicat Softening Point (Rate B)

144°F (62°C)

ASTM D1525 – ISO 306

Freezing Point (DSC)

115°F (46°C)

ASTM D3418

#### Mechanical

Flexural Modulus (73 °F)

**Nominal Values**  
462MPa (67007psi)

**Test Method**  
ASTM D790

Flexural Modulus (-4 °F)

not yet determined

ASTM D790

Ross Flex (Compression molded, 3.2 mm thick, pierced 2.5 mm wide, 73 °F)

100cycles

ASTM D1052

Ross Flex (Compression molded, 3.2 mm thick, pierced 2.5 mm wide, -20 °F)

100cycles

ASTM D1052

Tensile Elongation @ Break (73 °F)	290%	ASTM D638 – ISO 527–2
Tensile Strength @ Break (73°F)	26.2MPa (3800psi)	ASTM D638 – ISO 527–2
Tensile Strength @ Yield (Type IV Bars, compression molded, 5.0 cm/min, 73 °F)	19.3MPa (2799psi)	ASTM D638
<b>Impact</b>	<b>Nominal Values</b>	<b>Test Method</b>
Notched Izod Impact (73 °F)	not yet determined	ASTM D256
Tensile Impact Strength (73 °F)	160ft–lb/in <sup>2</sup>	ASTM D1822
Tensile Impact Strength (–40 °F)	140ft–lb/in <sup>2</sup>	ASTM D1822
<b>Hardness</b>	<b>Nominal Values</b>	<b>Test Method</b>
Durometer Hardness (Shore D)	68	ASTM D2240 – ISO 868
<b>Optical</b>	<b>Nominal Values</b>	<b>Test Method</b>
Haze (0.250 in)	9%	ASTM D1003
<b>Elastomer</b>	<b>Nominal Values</b>	<b>Test Method</b>
Tear Strength (73 °F)	not yet determined	ASTM D624

## Processing Information

### Safety & Handling

Surlyn® 7930 as supplied by DuPont is not considered a hazardous material. As with any hot material, care should be taken to protect the hands and other exposed parts of the body when handling molten polymer. At recommended processing temperatures, small amounts of fumes may evolve from the resins. When resins are overheated, more extensive decomposition may occur. Adequate ventilation should be provided to remove the fumes from the work area. Disposal of scrap presents no special problems and can be by landfill or incineration in a properly operated incinerator. Disposal should comply with local, state, and federal regulations. Resin pellets can be a slipping hazard. Loose pellets should be swept up promptly to prevent falls.

For more detailed information on the safe handling and disposal of DuPont resins, a Product Safety Bulletin and OSHA Material Safety Data Sheet can be obtained from the DuPont Packaging Products sales office serving you.

Read and understand the Material Safety Data Sheet (MSDS) before using this product

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