



DuPont™ Surlyn® 6910

Description

Product Description

DuPont™ Surlyn® 6910 is a magnesium ionomer that provides good toughness and durability in molded and extruded applications. It is positioned in the medium / high acid, high neutralization area of the ionomer spectrum. In golf ball covers, Surlyn® 6910 provides good cut resistance, impact durability, and high resiliency. It is particularly useful in blends with soft, very low modulus magnesium, sodium, or lithium ionomers.

Product Characteristics

Processing Method

- Injection Molding
- Extrusion

Material Status

- Commercial: Active

Availability

- Globally

Cation Type

- Mg

Uses

- not yet determined

Manufacturer / Supplier

- DuPont Packaging & Industrial Polymers

Properties

Physical

Density

Nominal Values
0.94g/cm³

Test Method

ASTM D792 – ISO 1183

Melt Flow Rate

Nominal Values
0.8g/10 min

ASTM D1238 – ISO 1133

Thermal

Melting Point (DTA)

Nominal Values
87°C (189°F)

Test Method

ASTM D3418 – ISO 3146

Vicat Softening Point

Nominal Values
62°C (144°F)

ASTM D1525 – ISO 306

Freezing Point (DTA)

Nominal Values
41°C (106°F)

ASTM D3418

Mechanical

Flexural Modulus

Nominal Values

372MPa (53954psi)

Test Method

ASTM D790

Tensile Elongation @ Break

Nominal Values
260%

ASTM D638 – ISO 527-2

Tensile Strength @ Break

Nominal Values
29.7MPa (4308psi)

ASTM D638 – ISO 527-2

Tensile Strength @ Yield

Nominal Values
18.6MPa (2698psi)

ASTM D638

Hardness

Durometer Hardness (Shore D)

Nominal Values

63

Test Method

ASTM D2240 – ISO 868

Optical

Haze (0.250 in)

Nominal Values

not yet determined

Test Method

ASTM D1003

Processing Information

Safety & Handling

Surlyn® 6910 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.

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This data sheet is effective as of 3/29/2004, and supersedes all previous versions.



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