

Surlyn® 1702

Ionomer

DuPont Packaging & Industrial Polymers

Message:

Surlyn® 1702 is available for use in conventional blown, cast film, sheet extrusion and coextrusion equipment. It is also used in extrusion coating and coextrusion coating equipment designed to process polyethylene and ethylene copolymer type resins.

| General Information | | | |
|---------------------|-------------------------|--|--|
| Uses | Films | | |
| | cast film | | |
| | Sheet | | |
| | Coating application | | |
| Agency Ratings | FDA 21 CFR 177.1330(a) | | |
| Forms | Particle | | |
| Processing Method | Blow film | | |
| | Co-extrusion molding | | |
| | Extrusion coating | | |
| | cast film | | |
| | Sheet extrusion molding | | |

| Physical | Nominal Value | Unit | Test Method |
|---|---------------|-------------------|----------------------|
| Specific Gravity | 0.950 | g/cm ³ | ASTM D792, ISO 1183 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 14 | g/10 min | ASTM D1238, ISO 1133 |
| Ion Type | Zinc | | |
| Freezing Point | | | |
| -- | 64 | °C | ISO 3146 |
| -- | 64 | °C | ASTM D3417 |

| Thermal | Nominal Value | Unit | Test Method |
|-----------------------------|---------------|------|----------------------|
| Vicat Softening Temperature | 65.0 | °C | ASTM D1525, ISO 306 |
| Peak Melting Temperature | 93.0 | °C | ASTM D3417, ISO 3146 |

| Extrusion | Nominal Value | Unit |
|-----------------------|---------------|------|
| Cylinder Zone 1 Temp. | 135 | °C |
| Cylinder Zone 2 Temp. | 185 | °C |
| Cylinder Zone 3 Temp. | 210 | °C |
| Cylinder Zone 4 Temp. | 210 | °C |
| Cylinder Zone 5 Temp. | 210 | °C |
| Adapter Temperature | 210 | °C |
| Melt Temperature | 160 - 235 | °C |
| Die Temperature | 210 | °C |

Extrusion instructions

Blown Film Processing Paramters:Feed Temperature: 110°CSecond Zone Temperature: 135°CThird Zone Temperature: 160°CFourth Zone Temperature: 160°C
Fifth Zone Temperature: 160°CAdapter Temperature: 160°CDie Temperature: 160°CExtrusion Coating/Laminating Processing Parameters:Feed Temperature: 160°C
Second Zone Temperature: 210°CThird Zone Temperature: 235°CFourth Zone Temperature: 235°C
Fifth Zone Temperature: 235°CAdapter Temperature: 235°C
Die Temperature: 235°C

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