

DuPont™ Surlyn® 1706 Zinc Ionomer

Category : Polymer , Thermoplastic , Ionomer , Ionomer, Film Grade

Material Notes:

Surlyn® 1706 is available for use in conventional blown, cast film, and sheet extrusion equipment. It is also used in coextrusion equipment designed to process polyethylene and ethylene copolymer type resins. SURLYN® 1706 complies with Food and Drug Administration Regulation 21 CFR 177.1330(a) - - Ionomeric resins, subject to the limitations and requirements therein. This Regulation describes polymers that may be used in contact with food, subject to the finished food-contact article meeting the extractive limitations under the intended conditions of use, as shown in paragraph (c) of the Regulation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Surlyn-1706-Zinc-Ionomer.php

Physical Properties	Metric	English	Comments
Density	0.950 g/cc	0.0343 lb/in³	ASTM D792, ISO 1183
Melt Flow	0.70 g/10 min	0.70 g/10 min	ASTM D1238, ISO 1183
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	

Thermal Properties	Metric	English	Comments
Melting Point	54.0 °C	129 °F	Freezing Point; ASTM D3417, ISO 3146
	90.0 °C	194 °F	ASTM D3417, ISO 3146
Vicat Softening Point	65.0 °C	149 °F	ASTM D1525, ISO 306

Processing Properties	Metric	English	Comments
Processing Temperature	<= 285 °C	<= 545 °F	
Feed Temperature	135 °C	275 °F	Blown Film Coextrusion
	160 °C	320 °F	Cast Film/Sheet Processing
Zone 2	160 °C	320 °F	Blown Film Coextrusion
	210 °C	410 °F	Cast Film/Sheet Processing
Zone 3	185 °C	365 °F	Blown Film Coextrusion
	235 °C	455 °F	Cast Film/Sheet Processing
Zone 4	185 °C	365 °F	Blown Film Coextrusion
	235 °C	455 °F	Cast Film/Sheet Processing
Zone 5	185 °C	365 °F	Blown Film Coextrusion

Processing Properties	Metric 235 °C	English 455 °F	Comments Cast Film/Sheet Processing
Adapter Temperature	185 °C	365 °F	Blown Film Coextrusion
	235 °C	455 °F	Cast Film/Sheet Processing
Die Temperature	185 °C	365 °F	Blown Film Coextrusion
	235 °C	455 °F	Cast Film/Sheet Processing
Melt Temperature	160 - 260 °C	320 - 500 °F	Blown/Cast Film Processing

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