

DuPont™ Surlyn® 1825 Zinc Ionomer

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

Material Notes:

Surlyn® 1825 is available for use in conventional blown, cast film, sheet extrusion and coextrusion equipment designed to process polyethylene and ethylene copolymer type resins. SURLYN® 1825 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-1825-Zinc-Ionomer.php

Physical Properties	Metric	English	Comments
Density	0.940 g/cc	0.0340 lb/in³	ASTM D792, ISO 1183
Melt Flow	1.35 g/10 min	1.35 g/10 min	ASTM D1238, ISO 1133
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	

Thermal Properties	Metric	English	Comments
Melting Point	76.0 °C	169 °F	Freezing Point; ASTM D3417, ISO 3146
	97.0 °C	207 °F	ASTM D3417, ISO 3146
Vicat Softening Point	73.0 °C	163 °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
	185 °C	365 °F	Cast Film/Sheet Processing
Zone 3	185 °C	365 °F	Blown Film Coextrusion
	210 °C	410 °F	Cast Film/Sheet Processing
Zone 4	185 °C	365 °F	Blown Film Coextrusion
	210 °C	410 °F	Cast Film/Sheet Processing
Zone 5	185 °C	365 °F	Blown Film Coextrusion

Processing Properties	Metric 210 °C	English 410 °F	Comments Cast Film/Sheet Processing
Adapter Temperature	185 °C	365 °F	Blown Film Coextrusion
	210 °C	410 °F	Cast Film/Sheet Processing
Die Temperature	185 °C	365 °F	Blown Film Coextrusion
	210 °C	410 °F	Cast Film/Sheet Processing
Melt Temperature	160 - 285 °C	320 - 545 °F	Blown/Cast Film Processing

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