

DuPont™ Surlyn® E185SB Ionomer Resin

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

Material Notes:

Surlyn® E185SB is an ionomer of an acid copolymer resin. It is designed for coextrusion with high-density polyethylene in peelable seals applications. It can be used in extrusion equipment designed to typically process polyethylene resins. Uses: Film Packaging Sealants

Composition: Proprietary Formulation Surlyn® E185SB can be coextruded with HDPE to provide delamination-type peelable seals. The seal strength can be controlled by processing conditions and/or the thickness of Surlyn® E185SB layer. Thickness is typically in the range of 5 to 15 microns (0.20 to 0.60 mils). Other benefits of Surlyn® E185SB include: Very low seal initiation temperature· Broad sealing temperature range Contains "Slip" and "Antiblock" Surlyn® E185SB complies with the Food and Drug Administration regulation 21 CFR 175.300 - - 'Resinous and polymeric coatings'. This regulation describes polymers that may be used as coatings on a metal substrate for packaging, transporting, or holding food, subject to meeting the extractive limitations in the regulation. SURLYN E185SB also complies with FDA regulation 21 CFR 175.320 - - 'Resinous and polymeric coatings for polyolefin films', subject to meeting the extractive limitations in the regulation. SURLYN E185SB contains 0.45 wt.% of a slip agent that complies with 21 CFR 175.300(b)(3)(xxv) – 'Release agents' and 21 CFR 175.320(b)(3). This slip agent cannot exceed 0.0085 milligram per square centimeter (0.055 milligram per square inch) in the finished food-contact article.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Surlyn-E185SB-Ionomer-Resin.php

Physical Properties	Metric	English	Comments
Density	0.950 g/cc	0.0343 lb/in³	ASTM D792, ISO 1183
Melt Flow	3.0 g/10 min @Load 2.16 kg, Temperature 190 °C	3.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238, ISO 1133

Thermal Properties	Metric	English	Comments
Melting Point	62.0 °C	144 °F	Freezing Point; ASTM D3418, ISO 3146
	89.0 °C	192 °F	ASTM D3418, ISO 3146
Vicat Softening Point	60.0 °C	140 °F	ASTM D1525, ISO 306

Processing Properties	Metric	English	Comments
Processing Temperature	<= 260 °C	<= 500 °F	
Feed Temperature	135 °C	275 °F	Blown Film Coextrusion
	135 °C	275 °F	Cast Film/Sheet Processing
Zone 2	160 °C	320 °F	Blown Film Coextrusion
	160 °C	320 °F	Cast Film/Sheet Processing

Processing Properties	Metric	English	Comments
Zone 3	185 °C	365 °F	Blown Film Coextrusion
	185 °C	365 °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
	210 °C	410 °F	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 - 235 °C	320 - 455 °F	Blown/Cast Film Processing

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