

DuPont Elvax® 3135SB Ethylene-Vinyl Acetate Copolymer Resin for Blown Film

Category : Polymer , Film , Thermoplastic , Ethylene Vinyl Acetate , Ethylene Vinyl Acetate Copolymer (EVA), Film Grade

Material Notes:

12 wt% Vinyl Acetate. Elvax® 3135SB is an extrudable ethylene-vinyl acetate copolymer resin available in pellet form for use in conventional extrusion equipment designed to process polyethylene resins. Additives: Slip; Antiblock; Antioxidant. Applications: Elvax® 3135SB is designed to provide a low temperature heat seal to itself or many other materials commonly used in flexible packaging applications. The melt properties of this resin allow it to be processed on blown film equipment over a wide range of film thicknesses and blow-up ratios. It can also be coextruded with a variety of other polymers. Films from this resin exhibit excellent puncture resistance, good processibility, a high degree of stretch, and are typically used in poultry/meat and produce packaging applications. Information provided by DuPont Packaging Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Elvax-3135SB-Ethylene-Vinyl-Acetate-Copolymer-Resin-for-Blown-Film.php

Physical Properties	Metric	English	Comments
Density	0.930 g/cc	0.0336 lb/in ³	ASTM D792
Moisture Vapor Transmission	0.940 cc-mm/m ² -24hr-atm	2.39 cc-mil/100 in ² -24hr-atm	g-mm/m ² -day; based on 1 mil (0.0254 mm) thick film; ASTM E96
Oxygen Transmission	181 cc-mm/m ² -24hr-atm	460 cc-mil/100 in ² -24hr-atm	Based on 1 mil (0.0254 mm) thick film; ASTM D3985
Viscosity	2.00e+6 cP @Shear Rate 50.0 1/s, Temperature 190 °C	2.00e+6 cP @Shear Rate 50.0 1/s, Temperature 374 °F	estimated from log-log graph
Melt Flow	0.35 g/10 min	0.35 g/10 min	Condition not noted.; ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	450 %	450 %	50 µm (2 mil) film; ASTM D882
Film Elongation at Break, TD	500 %	500 %	50 µm (2 mil) film; ASTM D882
Secant Modulus, MD	0.0610 GPa	8.85 ksi	50 µm (2 mil) film; ASTM D882
Secant Modulus, TD	0.0640 GPa	9.28 ksi	50 µm (2 mil) film; ASTM D882
Impact	39.1	39.1	J/mm Spencer Impact; ASTM D3420; Average of MD and TD
Coefficient of Friction	0.18	0.18	film/film; ASTM D1894
	0.35	0.35	film/metal; ASTM D1894
Elmendorf Tear Strength, MD	3.66 g/micron	93.0 g/mil	Average of MD and TD; ASTM D1922
Elmendorf Tear Strength, TD	4.06 g/micron	103 g/mil	50 µm (2 mil) film; ASTM D1922

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Break, MD	30.0 MPa	4350 psi	50 µm (2 mil) film; ASTM D882
Film Tensile Strength at Break, TD	30.0 MPa	4350 psi	50 µm (2 mil) film; ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	77.0 °C	171 °F	Freezing Point via DSC/ASTM D3418
	97.0 °C	207 °F	Upon Melting via DSC/ASTM D3418
Vicat Softening Point	81.0 °C	178 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	7.0 %	7.0 %	ASTM D1003
Gloss	67 %	67 %	20°; ASTM D2457
Transmission, Visible	10 %	10 %	50 µm (2 mil) film; ASTM D1746

Processing Properties	Metric	English	Comments
Melt Temperature	175 - 205 °C	347 - 401 °F	blown film extrusion

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