

DuPont Elvax® 3165 Ethylene-Vinyl Acetate Copolymer Resin for Coextrusion, Blown Film

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

Material Notes:

18 wt% Vinyl Acetate. Elvax® 3165 is an extrudable ethylene-vinyl acetate copolymer resin available in pellet form for use in conventional extrusion equipment designed to process polyethylene resins. Additives: Antioxidant. Applications: Elvax® 3165 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. Elvax® 3165 is typically used as a low temperature seal layer in coextruded films. Information provided by DuPont Packaging Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Elvax-3165-Ethylene-Vinyl-Acetate-Copolymer-Resin-for-Coextrusion-Blown-Film.php

Physical Properties	Metric	English	Comments
Density	0.940 g/cc	0.0340 lb/in ³	ASTM D792
Moisture Vapor Transmission	1.65 cc-mm/m ² -24hr-atm @Thickness 0.0254 mm	4.19 cc-mil/100 in ² -24hr-atm @Thickness 0.00100 in	g-mm/m ² -day; based on film thickness; ASTM E96; ASTM E96
Oxygen Transmission	229 cc-mm/m ² -24hr-atm @Thickness 0.0254 mm	582 cc-mil/100 in ² -24hr-atm @Thickness 0.00100 in	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	0.70 g/10 min	0.70 g/10 min	Condition not noted.; ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	500 %	500 %	50 µm (2 mil) film; ASTM D882
Film Elongation at Break, TD	550 %	550 %	50 µm (2 mil) film; ASTM D882
Secant Modulus, MD	0.0450 GPa	6.53 ksi	50 µm (2 mil) film; ASTM D882
Secant Modulus, TD	0.0440 GPa	6.38 ksi	50 µm (2 mil) film; ASTM D882
Impact	43.6	43.6	J/mm Spencer Impact; Average of MD and TD; ASTM D3420
Coefficient of Friction	0.81	0.81	film/metal; ASTM D1894

Mechanical Properties	^{3.3} Metric	^{3.3} English	film/film: ASTM D1894 Comments
Elmendorf Tear Strength, MD	4.21 g/micron	107 g/mil	50 µm (2 mil) film; ASTM D1922
Elmendorf Tear Strength, TD	5.24 g/micron	133 g/mil	50 µm (2 mil) film; ASTM D1922
Film Tensile Strength at Break, MD	24.0 MPa	3480 psi	50 µm (2 mil) film; ASTM D882
Film Tensile Strength at Break, TD	39.0 MPa	5660 psi	50 µm (2 mil) film; ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	68.0 °C	154 °F	Freezing Point via DSC/ASTM D3418
	89.0 °C	192 °F	Upon Melting via DSC/ASTM D3418
Vicat Softening Point	69.0 °C	156 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	2.0 %	2.0 %	ASTM D1003
Gloss	109 %	109 %	20°; ASTM D2457
Transmission, Visible	63 %	63 %	50 µm (2 mil) film; ASTM D1746

Processing Properties	Metric	English	Comments
Melt Temperature	150 - 205 °C	302 - 401 °F	blown film extrusion

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