

DuPont Elvax® 3173SHB Ethylene-Vinyl Acetate Copolymer Resin for Coextrusion, Blown Film (discontinued **)<

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

Material Notes:

18 wt% Vinyl Acetate. Elvax® 3173SHB 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, Non-BHT antioxidant. Applications: Elvax® 3173SHB 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® 3173SHB 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-3173SHB-Ethylene-Vinyl-Acetate-Copolymer-Resin-for-Coextrusion-Blown-Film-nbspdiscontinued-lt.php

Physical Properties	Metric	English	Comments
Density	0.950 g/cc	0.0343 lb/in ³	ASTM D792
Moisture Vapor Transmission	1.40 cc-mm/m ² -24hr-atm	3.56 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	220 cc-mm/m ² -24hr-atm @Thickness 0.0254 mm	559 cc-mil/100 in ² -24hr-atm @Thickness 0.00100 in	Based on 1 mil (0.0254 mm) thick film; ASTM D3985
Viscosity	1.00e+6 cP @Shear Rate 50.0 1/s, Temperature 190 °C	1.00e+6 cP @Shear Rate 50.0 1/s, Temperature 374 °F	estimated from log-log graph
Melt Flow	2.5 g/10 min	2.5 g/10 min	Condition not noted.; ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	550 %	550 %	50 µm (2 mil) film; ASTM D882
Film Elongation at Break, TD	600 %	600 %	50 µm (2 mil) film; ASTM D882
Secant Modulus, MD	0.0480 GPa	6.96 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	28	28	J/mm Spencer Impact; ASTM D3420
Coefficient of Friction	0.25	0.25	film/film; ASTM D1894
	0.44	0.44	film/metal; ASTM D1894

Elmendorf Tear Strength, MD Mechanical Properties	3.70 g/micron Metric	94.0 g/mil English	50 µm (2 mil) film; ASTM D1922 Comments
Elmendorf Tear Strength, TD	4.25 g/micron	108 g/mil	50 µm (2 mil) film; ASTM D1922
Film Tensile Strength at Break, MD	23.0 MPa	3340 psi	50 µm (2 mil) film; ASTM D882
Film Tensile Strength at Break, TD	28.0 MPa	4060 psi	50 µm (2 mil) film; ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	65.0 °C	149 °F	Freezing Point via DSC/ASTM D3418
	87.0 °C	189 °F	Upon Melting via DSC/ASTM D3418
Vicat Softening Point	65.0 °C	149 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	15 %	15 %	ASTM D1003
Gloss	50 %	50 %	20°; ASTM D2457
Transmission, Visible	4.5 %	4.5 %	50 µm (2 mil) film; ASTM D1746

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