DuPont Elvax® 3170 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® 3170 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® 3170 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® 3170 is typically used as a low temperature seal layer in coextruded films. Elvax® 3170S and 3170SHB are grades of Elvax® 3170 resin containing FDA approved additives and have been designed to provide films of improved slip and antiblock properties.Information provided by DuPont Packaging Polymers.

Order this product through the following link:
http://www.lookpolymers.com/polymer_DuPont-Elvax-3170-Ethylene-Vinyl-Acetate-Copolymer-Resin-for-Coextrusion-Blown-Film.php

Physical Properties	Metric	English	Comments
Density	0.940 g/cc	0.0340 lb/in³	ASTM D792
Moisture Vapor Transmission	1.50 cc-mm/m²-24hr-atm	3.81 cc-mil/100 in²-24hr-atm	g-mm/m²-day; based on 1 mil (0.0254 mm) thick film; ASTM E96
Oxygen Transmission	185 cc-mm/m²-24hr-atm @Thickness 0.0254 mm	470 cc-mil/100 in²-24hr-atm @Thickness 0.00100 in	Based on 1 mil (0.0254 mm) thick film; ASTM D3985
Viscosity	1.20e+6 cP @Shear Rate 50.0 1/s, Temperature 190 °C	1.20e+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	600 %	600 %	50 µm (2 mil) film; ASTM D882
Film Elongation at Break, TD	550 %	550 %	50 µm (2 mil) film; ASTM D882
Secant Modulus, MD	0.0380 GPa	5.51 ksi	50 µm (2 mil) film; ASTM D882
Secant Modulus, TD	0.0430 GPa	6.24 ksi	50 µm (2 mil) film; ASTM D882
Impact	36	36	J/mm Spencer Impact; Average of MD and TD; ASTM D3420
Coefficient of Friction	1.5	1.5	film/metal; ASTM D1894
	3.9	3.9	film/film; ASTM D1894

Mechanical Properties	Metric	English	Comments
Elmendorf Tear Strength, TD	3.70 g/micron	94.0 g/mil	50 µm (2 mil) film; ASTM D1922
Film Tensile Strength at Break, MD	29.0 MPa	4210 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	68.0 °C	154 °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	3.0 %	3.0 %	ASTM D1003
Gloss	107 %	107 %	20°; ASTM D2457
Transmission, Visible	75 %	75 %	50 µm (2 mil) film; ASTM D1746

Processing Properties	Metric	English	Comments
Melt Temperature	125 - 175 °C	257 - 347 °F	blown film extrusion

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