

## DuPont Elvax® 3135X Ethylene-Vinyl Acetate Copolymer Resin for Thin Blown

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

### Material Notes:

12 wt% Vinyl Acetate. Elvax® 3135X is an extrudable, ethylene-vinyl acetate copolymer resin available in pellet form for use in conventional extrusion equipment designed to process polyethylene resins. Applications: Elvax® 3135X 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 good puncture resistance, superior optics, a high degree of stretch, and are often used in stretch wrap and/or stretch bundling applications. Elvax® 3135X is also available in a specially formulated compound (Elvax® 3135AC) for those applications requiring added cling. Information provided by DuPont Packaging Polymers.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_DuPont-Elvax-3135X-Ethylene-Vinyl-Acetate-Copolymer-Resin-for-Thin-Blown.php](http://www.lookpolymers.com/polymer_DuPont-Elvax-3135X-Ethylene-Vinyl-Acetate-Copolymer-Resin-for-Thin-Blown.php)

Physical Properties	Metric	English	Comments
Density	0.930 g/cc	0.0336 lb/in <sup>3</sup>	ASTM D792
Moisture Vapor Transmission	0.910 cc-mm/m <sup>2</sup> -24hr-atm @Thickness 0.0254 mm	2.31 cc-mil/100 in <sup>2</sup> -24hr-atm @Thickness 0.00100 in	g-mm/m <sup>2</sup> -day; based on film thickness; ASTM E96; ASTM E96
Oxygen Transmission	201 cc-mm/m <sup>2</sup> -24hr-atm @Thickness 0.0254 mm	511 cc-mil/100 in <sup>2</sup> -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	0.35 g/10 min	0.35 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	550 %	550 %	50 µm (2 mil) film; ASTM D882
Secant Modulus, MD	0.0580 GPa	8.41 ksi	50 µm (2 mil) film; ASTM D882
Secant Modulus, TD	0.0650 GPa	9.43 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	1.3	1.3	film/metal; ASTM D1894

Mechanical Properties	<sup>3,4</sup> Metric	<sup>3,4</sup> English	film/film; ASTM D1894 Comments
Elmendorf Tear Strength, MD	3.19 g/micron	81.0 g/mil	50 µm (2 mil) film; ASTM D1922
Elmendorf Tear Strength, TD	3.35 g/micron	85.0 g/mil	50 µm (2 mil) film; ASTM D1922
Film Tensile Strength at Break, MD	32.0 MPa	4640 psi	50 µm (2 mil) film; ASTM D882
Film Tensile Strength at Break, TD	34.0 MPa	4930 psi	50 µm (2 mil) film; ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	78.0 °C	172 °F	Freezing Point via DSC/ASTM D3418
	95.0 °C	203 °F	Upon Melting via DSC/ASTM D3418
Vicat Softening Point	82.0 °C	180 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	3.0 %	3.0 %	ASTM D1003
Gloss	123 %	123 %	20°; ASTM D2457
Transmission, Visible	69 %	69 %	50 µm (2 mil) film; ASTM D1746

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

## Contact Songhan Plastic Technology Co.,Ltd.

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