

DuPont Elvax® 3120 Ethylene-Vinyl Acetate Copolymer Resin for Blown Film

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

Material Notes:

7.5 wt% Vinyl Acetate. General Elvax® information: Elvax® packaging grade resins include low seal temperatures for use in coextrusions or for packaging temperature sensitive materials, excellent drawability for easy processing, good flex-crack resistance for liquid packaging, high toughness, low shrink for water bath applications, and excellent optical properties. It adheres to many materials. It is commonly used as a tie layer in certain coextrusions with dissimilar surfaces. Information provided by DuPont Packaging Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Elvax-3120-Ethylene-Vinyl-Acetate-Copolymer-Resin-for-Blown-Film.php

Physical Properties	Metric	English	Comments
Density	0.940 g/cc	0.0340 lb/in ³	ASTM D792
Moisture Vapor Transmission	0.590 cc-mm/m ² -24hr-atm @Thickness 0.0254 mm	1.50 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	177 cc-mm/m ² -24hr-atm @Thickness 0.0254 mm	450 cc-mil/100 in ² -24hr-atm @Thickness 0.00100 in	film; ASTM D3985
Melt Flow	1.2 g/10 min	1.2 g/10 min	Condition not noted.; ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	450 %	450 %	MD-TD Average; ASTM D882
Film Elongation at Break, TD	450 %	450 %	MD-TD Average; ASTM D882
Impact	15.1	15.1	J/mm Spencer Impact; Average of MD and TD; ASTM D3420
Elmendorf Tear Strength, MD	2.05 g/micron	52.0 g/mil	Average of MD and TD; ASTM D1922
Film Tensile Strength at Break, MD	21.4 MPa	3100 psi	MD-TD Average; ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	82.0 °C	180 °F	Freezing Point via DSC/ASTM D3418
	99.0 °C	210 °F	Upon Melting via DSC/ASTM D3418
Vicat Softening Point	84.0 °C	183 °F	ASTM D1525

Optical Properties	Metric	English	Comments
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Optical Properties	Metric	English	Comments ¹³
Gloss	17 %	17 %	20°; ASTM D2457

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