

Noltex Soarnol® AT4403 Ethylene Vinyl Alcohol Copolymer

Category : Polymer , Thermoplastic , Ethylene Vinyl Alcohol (EVOH)

Material Notes:

High ethylene content, low melting point. Suitable for use in multilayer structures where ease of thermoforming is required. Ethylene content 44 mol%. The gas barrier property of Soarnol is about forty times better than that of nylon, therefore, Soarnol allows design of lower cost packages by using a thin gas barrier layer without loss of shelf life. Soarnol AT4403 with low melt flow index is one of the standard grade of Soarnol, its ethylene content is 44 mol%. Soarnol AT4403 has excellent water resistance and has a gas barrier property that does not lower at high humidity, so Soarnol AT4403 can be used as the most outer layer of multi layer film. This resin suited for coextruded inflation film and coextruded sheet. Information provided by Soarus, LLC. In the United States SOARNOL is produced by Noltex, L.L.C., an affiliate of Nippon Gohsei.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Noltex-Soarnol-AT4403-Ethylene-Vinyl-Alcohol-Copolymer.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	
Moisture Vapor Transmission	0.360 - 0.750 cc-mm/m ² -24hr-atm	0.914 - 1.90 cc-mil/100 in ² -24hr-atm	40°C- 90% RH; based on 30 µm layer
Oxygen Transmission	0.0300 cc-mm/m ² -24hr-atm	0.0762 cc-mil/100 in ² -24hr-atm	20°C- 65% RH; based on 20 µm layer
Viscosity	850000 cP @Shear Rate 190 1/s, Temperature 230 °C	850000 cP @Shear Rate 190 1/s, Temperature 446 °F	
Melt Flow	3.5 g/10 min @Load 2.16 kg, Temperature 210 °C	3.5 g/10 min @Load 4.76 lb, Temperature 410 °F	

Thermal Properties	Metric	English	Comments
Melting Point	164 °C	327 °F	DSC, both heating and cooling speeds of 20°C/min
Crystallization Temperature	144 °C	291 °F	DSC, both heating and cooling speeds of 20°C/min
Glass Transition Temp, Tg	55.0 °C	131 °F	DSC, both heating and cooling speeds of 20°C/min

Optical Properties	Metric	English	Comments
Refractive Index	1.518	1.518	Quenched
	1.525	1.525	Annealed at 140°C, 30 min
Haze	1.1 %	1.1 %	

Optical Properties	Metric	English	Comments
Processing Properties	Metric	English	Comments
Nozzle Temperature	190 - 220 °C	374 - 428 °F	

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