

Noltex Soarnol® ET3803 Ethylene Vinyl Alcohol Copolymer

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

Material Notes:

Medium ethylene content. Suitable for packaging a wet product in a wet environment. Preferred for use in forming webs for meat and cheese packaging. Ethylene content 38 mol%. Volatile matter 0.3%. 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 ET3803 with intermediate melt flow index is one of the standard grade of Soarnol, its ethylene content is 38 mol%. Since Soarnol ET3803 has both excellent gas barrier property and water resistance, this resin is suited for coextruded film, coextruded sheet and coextrusion coating. This resin can also be used in thermoforming and shrink packaging. 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-ET3803-Ethylene-Vinyl-Alcohol-Copolymer.php

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0419 lb/in ³	
Moisture Vapor Transmission	0.690 - 1.11 cc-mm/m ² -24hr-atm	1.75 - 2.82 cc-mil/100 in ² -24hr-atm	40°C- 90% RH; based on 30 µm layer
Oxygen Transmission	0.0140 cc-mm/m ² -24hr-atm	0.0356 cc-mil/100 in ² -24hr-atm	20°C- 65% RH; based on 20 µm layer
Viscosity	1.00e+6 cP @Shear Rate 190 1/s, Temperature 230 °C	1.00e+6 cP @Shear Rate 190 1/s, Temperature 446 °F	
Melt Flow	3.2 g/10 min @Load 2.16 kg, Temperature 210 °C	3.2 g/10 min @Load 4.76 lb, Temperature 410 °F	

Thermal Properties	Metric	English	Comments
Melting Point	173 °C	343 °F	DSC, both heating and cooling speeds of 20°C/min
Crystallization Temperature	152 °C	306 °F	DSC, both heating and cooling speeds of 20°C/min
Glass Transition Temp, Tg	58.0 °C	136 °F	DSC, both heating and cooling speeds of 20°C/min

Optical Properties	Metric	English	Comments
Refractive Index	1.521	1.521	Quenched
	1.528	1.528	Annealed at 140°C, 30 min
Haze	0.50 %	0.50 %	

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

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