

Noltex Soarnol® BS3803 Ethylene Vinyl Alcohol Copolymer

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

Material Notes:

Modified ET3803; New Stretchable EVOH. 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 BS3803 has excellent stretchability without lower of gas barrier property. This grade is appropriate to co-extrusion and co-stretching with polypropylene. 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-BS3803-Ethylene-Vinyl-Alcohol-Copolymer.php

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0419 lb/in ³	
Moisture Vapor Transmission	0.750 - 1.11 cc-mm/m ² -24hr-atm	1.90 - 2.82 cc-mil/100 in ² -24hr-atm	40°C- 90% RH; based on 30 µm layer
Oxygen Transmission	0.0200 cc-mm/m ² -24hr-atm	0.0508 cc-mil/100 in ² -24hr-atm	20°C- 65% RH; based on 20 µm layer
Viscosity	1.00e+6 cP @Shear Rate 270 1/s, Temperature 230 °C	1.00e+6 cP @Shear Rate 270 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	0.60 %	0.60 %	

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