

Noltex Soarnol® ST110 Ethylene Vinyl Alcohol Copolymer

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

Material Notes:

Modified DC3203; improved flex crack resistance and thermoformability. Ethylene content 32 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 ST110 has an excellent flex crack resistance and stretchability without lower of gas barrier property. This grade is appropriate for bag-in-box and stretched film. 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-ST110-Ethylene-Vinyl-Alcohol-Copolymer.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	
Moisture Vapor Transmission	1.74 cc-mm/m ² -24hr-atm	4.42 cc-mil/100 in ² -24hr-atm	40°C- 90% RH; based on 30 µm layer
Oxygen Transmission	0.0240 cc-mm/m ² -24hr-atm	0.0610 cc-mil/100 in ² -24hr-atm	20°C- 65% RH; based on 20 µm layer
Viscosity	170000 cP	170000 cP	
	@Shear Rate 60.0 1/s, Temperature 200 °C	@Shear Rate 60.0 1/s, Temperature 392 °F	
Melt Flow	3.7 g/10 min	3.7 g/10 min	
	@Load 2.16 kg, Temperature 210 °C	@Load 4.76 lb, Temperature 410 °F	

Thermal Properties	Metric	English	Comments
Melting Point	183 °C	361 °F	DSC, both heating and cooling speeds of 20°C/min
Crystallization Temperature	160 °C	320 °F	DSC, both heating and cooling speeds of 20°C/min
Glass Transition Temp, Tg	61.0 °C	142 °F	DSC, both heating and cooling speeds of 20°C/min

Optical Properties	Metric	English	Comments
Refractive Index	1.524	1.524	Quenched
	1.533	1.533	Annealed at 140°C, 30 min

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