

Noltex Soarnol® DT2903 Ethylene Vinyl Alcohol Copolymer

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

Material Notes:

Very low ethylene content, high gas barrier for packaging dry products or for use in packaging material used at normal temperature and humidity. Ethylene content 29 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 DT2903 with low melt flow index is one of the standard grade of Soarnol, its ethylene content is 29 mol%. Since Soarnol DT2903 has a good gas barrier at low humidity, this resin is suited for coextruded film and coextrusion coating. This resin can also be used in coextruded sheet, coextruded blow-molded containers and coextruded inflation film. Processing: Extruder: 40 m screw type, L/D=28; Screw: Full-flighted, constant pitch type, CR=4.0; Screen pack: 80/120/50 mesh; Die: Manifold type, die width=450 mm, lip distance=0.2 mm. 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-DT2903-Ethylene-Vinyl-Alcohol-Copolymer.php

Physical Properties	Metric	English	Comments
Density	1.21 g/cc	0.0437 lb/in ³	
Moisture Vapor Transmission	1.11 - 2.10 cc-mm/m ² -24hr-atm	2.82 - 5.33 cc-mil/100 in ² -24hr-atm	40°C- 90% RH; based on 30 µm layer
Oxygen Transmission	0.00800 cc-mm/m ² -24hr-atm	0.0203 cc-mil/100 in ² -24hr-atm	20°C- 65% RH; based on 20 µm layer
Viscosity	800000 cP @Shear Rate 250 1/s, Temperature 230 °C	800000 cP @Shear Rate 250 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	188 °C	370 °F	DSC, both heating and cooling speeds of 20°C/min
Crystallization Temperature	163 °C	325 °F	DSC, both heating and cooling speeds of 20°C/min
Glass Transition Temp, Tg	62.0 °C	144 °F	DSC, both heating and cooling speeds of 20°C/min

Optical Properties	Metric	English	Comments
Refractive Index	1.525	1.525	Quenched
	1.534	1.534	Annealed at 140°C, 30 min

Processing Properties	Metric	English	Comments
Nozzle Temperature	200 - 220 °C	392 - 428 °F	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China