

## Noltex Soarnol® DC3212 Ethylene Vinyl Alcohol Copolymer

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

### Material Notes:

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 DC3212 with high melt flow index is one of the standard grade of Soarnol, its ethylene content is 32 mol%. Since Soarnol DC3212 has excellent gas barrier property, this resin is suited for coextruded film and coextrusion coating. This resin can also be used in coextruded pipe. 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-DC3212-Ethylene-Vinyl-Alcohol-Copolymer.php](http://www.lookpolymers.com/polymer_Noltex-Soarnol-DC3212-Ethylene-Vinyl-Alcohol-Copolymer.php)

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in <sup>3</sup>	
Moisture Vapor Transmission	0.960 - 1.74 cc-mm/m <sup>2</sup> -24hr-atm	2.44 - 4.42 cc-mil/100 in <sup>2</sup> -24hr-atm	40°C- 90% RH; based on 30 µm layer
Oxygen Transmission	0.0100 cc-mm/m <sup>2</sup> -24hr-atm	0.0254 cc-mil/100 in <sup>2</sup> -24hr-atm	20°C- 65% RH; based on 20 µm layer
Viscosity	400000 cP  @Shear Rate 190 1/s, Temperature 230 °C	400000 cP  @Shear Rate 190 1/s, Temperature 446 °F	
Melt Flow	12 g/10 min  @Load 2.16 kg, Temperature 210 °C	12 g/10 min  @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

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

Processing Properties	Metric	English	Comments
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**Contact Songhan Plastic Technology Co.,Ltd.**

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