

## Noltex Soarnol® D2908 Ethylene Vinyl Alcohol Copolymer

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

### Material Notes:

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 D2908 with intermediate melt flow index is one of the standard grade of Soarnol, its ethylene content is 29 mol%. Since Soarnol D2908 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 pipe. Processing: Extruder: 40 mm 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-D2908-Ethylene-Vinyl-Alcohol-Copolymer.php](http://www.lookpolymers.com/polymer_Noltex-Soarnol-D2908-Ethylene-Vinyl-Alcohol-Copolymer.php)

| Physical Properties         | Metric  | English   | Comments                           |
|-----------------------------|---|---|------------------------------------|
| Density                     | 1.21 g/cc   | 0.0437 lb/in <sup>3</sup>                                   |                                    |
| Moisture Vapor Transmission | 1.11 - 2.10 cc-mm/m <sup>2</sup> -24hr-atm                  | 2.82 - 5.33 cc-mil/100 in <sup>2</sup> -24hr-atm            | 40°C- 90% RH; based on 30 µm layer |
| Oxygen Transmission         | 0.00800 cc-mm/m <sup>2</sup> -24hr-atm                      | 0.0203 cc-mil/100 in <sup>2</sup> -24hr-atm                 | 20°C- 65% RH; based on 20 µm layer |
| Viscosity                   | 500000 cP<br><br>@Shear Rate 250 1/s,<br>Temperature 230 °C | 500000 cP<br><br>@Shear Rate 250 1/s,<br>Temperature 446 °F |                                    |
| Melt Flow                   | 8.0 g/10 min<br><br>@Load 2.16 kg,<br>Temperature 210 °C    | 8.0 g/10 min<br><br>@Load 4.76 lb,<br>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 |          |

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