

# Soarnol® DT2903R

Ethylene Vinyl Alcohol

Soarus L.L.C.

## Message:

Soarnol DT2903R is a 29 mol% ethylene content standard grade of Soarnol with a low melt flow rate. Soarnol DT2903R has excellent gas barrier property at low humidity, good thermal stability and is used in coextruded film as well as coextruded sheet, coextruded blow-molded containers and coextrusion coating.

General Information			
Features	Copolymer		
	Low liquidity		
	Gas barrier property		
	Thermal stability, good		
	Compliance of Food Exposure		
Uses	Blown Containers		
	Films		
	Sheet		
	Coating application		
Agency Ratings	EU 90/128/EEC		
	FDA 21 CFR 177.1360		
Forms	Particle		
Processing Method	Blow molding		
	Co-extruded film		
	Co-extrusion molding		
	Extrusion		
	Coating		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (210°C/2.16 kg)	3.8	g/10 min	
Ethylene Content	29.0	wt%	Internal method
Volatile Matter		%	
Films	Nominal Value	Unit	Test Method
Oxygen Permeability <sup>1</sup> (20°C, 20 µm)	0.400	cm <sup>3</sup> /m <sup>2</sup> /24 hr	Internal method
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	62.0	°C	DSC
Melting Temperature	188	°C	DSC
Peak Crystallization Temperature (DSC)	163	°C	DSC

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	180	°C
Cylinder Zone 2 Temp.	200	°C
Cylinder Zone 3 Temp.	220	°C
Cylinder Zone 4 Temp.	230	°C
Cylinder Zone 5 Temp.	230	°C
Adapter Temperature	230	°C

#### Extrusion instructions

Extruder: 40 mm Single screw extruder, L/D = 28Screw: Full-flighted, constant pitch type, CR = 3.5Screen pack: 80/120/50 meshDie: Manifold type, die width = 450 mm, lip clearance = 0.2 mm

#### NOTE

- Measured with OXTRAN 10/50 (MOCON), 65%RH

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#### Recommended distributors for this material

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