

Soarnol® TF2905B

Ethylene Vinyl Alcohol

Soarus L.L.C.

Message:

Soarnol TF2905B is a special grade of Soarnol with a 29 mol% ethylene content and an intermediate melt flow rate. This resin has a wide thermoforming process window with excellent gas barrier. Soarnol TF2905B is specifically designed for thermoforming applications using Polystyrene and Polyethylene structural layers. This resin can also be used in thermoforming applications using Polypropylene structural layers.

General Information			
Features	Copolymer		
	Medium liquidity		
	Gas barrier property		
	Compliance of Food Exposure		
Uses	Components		
Agency Ratings	EU 90/128/EEC		
	FDA 21 CFR 175.105		
Forms	Particle		
Processing Method	Extrusion		
	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (210°C/2.16 kg)	5.0	g/10 min	
Ethylene Content	29.0	wt%	Internal method
Volatile Matter		%	
Films	Nominal Value	Unit	Test Method
Oxygen Permeability ¹ (20°C, 20 µm)	0.500	cm³/m²/24 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

1.
- Measured with OXTRAN 10/50
(MOCON), 65%RH

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