

Soarnol® V2504R

Ethylene Vinyl Alcohol

Soarus L.L.C.

Message:

Soarnol V2504R is a 25 mol% ethylene content grade of Soarnol with a low melt flow rate. Soarnol V2504R is truly a unique EVOH with the best gas barrier property at low humidity of all commercial EVOH resins. It is suited for coextruded blow-molded containers as well as coextruded sheet, coextruded film, and coextrusion coating.

General Information			
Features	Copolymer		
	Low liquidity		
	Gas barrier property		
	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	25.0	wt%	Internal method
Volatile Matter		%	
Films	Nominal Value	Unit	Test Method
Oxygen Permeability ¹ (20°C, 20 µm)	0.300	cm ³ /m ² /24 hr	Internal method
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	195	°C	DSC
Peak Crystallization Temperature (DSC)	171	°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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