

# Soarnol® AT4403

Ethylene Vinyl Alcohol

Soarus L.L.C.

## Message:

Soarnol AT4403 is a 44 mol% ethylene content standard grade of Soarnol with a low melt flow rate. Soarnol AT4403 has excellent water resistance and its gas barrier property is not drastically lower at high humidity. This resin is primarily used in coextruded film applications and can also be used in shrink packaging.

General Information			
Features	Moisture resistance		
	Copolymer		
	Low liquidity		
	Gas barrier property		
	Compliance of Food Exposure		
Uses	Films		
	Shrinkable film		
Agency Ratings	EU 90/128/EEC		
	FDA 21 CFR 177.1360		
Forms	Particle		
Processing Method	Co-extruded film		
	Extrusion		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (210°C/2.16 kg)	3.5	g/10 min	
Ethylene Content	44.0	wt%	Internal method
Volatile Matter		%	
Films	Nominal Value	Unit	Test Method
Oxygen Permeability <sup>1</sup> (20°C, 20 µm)	1.50	cm <sup>3</sup> /m <sup>2</sup> /24 hr	Internal method
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	55.0	°C	DSC
Melting Temperature	164	°C	DSC
Peak Crystallization Temperature (DSC)	144	°C	DSC
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	170	°C	
Cylinder Zone 2 Temp.	190	°C	
Cylinder Zone 3 Temp.	210	°C	
Cylinder Zone 4 Temp.	220	°C	

Cylinder Zone 5 Temp.	220	°C
Adapter Temperature	220	°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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