

Soarnol® H4815

Ethylene Vinyl Alcohol

Soarus L.L.C.

Message:

Soarnol H4815 is a 48 mol% ethylene content grade of Soarnol with a high melt flow rate. Soarnol H4815 has the best water resistance of all Soarnol grades and its gas barrier property is not drastically lower at high humidity. This resin is used in coextruded film, coextrusion coating, and shrink packaging.

General Information			
Features	Moisture resistance Copolymer High liquidity Gas barrier property Compliance of Food Exposure		
Uses	Films Shrinkable film Coating application		
Agency Ratings	EU 90/128/EEC FDA 21 CFR 177.1360		
Forms	Particle		
Processing Method	Co-extruded film Co-extrusion molding Extrusion Coating		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (210°C/2.16 kg)	16	g/10 min	
Ethylene Content	48.0	wt%	Internal method
Volatile Matter		%	
Films	Nominal Value	Unit	Test Method
Oxygen Permeability ¹ (20°C, 25 µm)	3.78	cm ³ /m ² /24 hr	Internal method
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	48.0	°C	DSC
Melting Temperature	158	°C	DSC
Peak Crystallization Temperature (DSC)	138	°C	DSC
Extrusion	Nominal Value	Unit	Test Method
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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