

# Soarnol® ET3803

Ethylene Vinyl Alcohol

Soarus L.L.C.

## Message:

Soarnol ET3803 is a 38 mol% ethylene content standard grade of Soarnol with a low melt flow rate. Soarnol ET3803 has both excellent barrier to gases as well as water resistance, this resin is primarily used in coextruded film applications. This resin can also be used in coextruded sheet / thermoforming and shrink packaging.

General Information			
Features	Moisture resistance Copolymer Low liquidity Gas barrier property Compliance of Food Exposure		
Uses	Films Sheet Shrinkable film		
Agency Ratings	EU 90/128/EEC FDA 21 CFR 177.1360		
Forms	Particle		
Processing Method	Co-extruded film Extrusion Thermoforming		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (210°C/2.16 kg)	3.2	g/10 min	
Ethylene Content	38.0	wt%	Internal method
Volatile Matter		%	
Films	Nominal Value	Unit	Test Method
Oxygen Permeability <sup>1</sup> (20°C, 20 µm)	0.700	cm <sup>3</sup> /m <sup>2</sup> /24 hr	Internal method
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	58.0	°C	DSC
Melting Temperature	173	°C	DSC
Peak Crystallization Temperature (DSC)	152	°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

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

### Recommended distributors for this material

## Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

