

Soarnol® ST1304B

Ethylene Vinyl Alcohol

Soarus L.L.C.

Message:

Soarnol ST1304B is a special grade of Soarnol with 32 mol% ethylene content and a low melt flow rate. This resin has excellent flex crack resistance.

General Information			
Features	High ESCR (Stress Cracking Resistance)		
	Copolymer		
	Low liquidity		
	Compliance of Food Exposure		
Uses	Piping system		
Agency Ratings	EU 90/128/EEC		
	FDA 21 CFR 175.105		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (210°C/2.16 kg)	4.0	g/10 min	
Ethylene Content	32.0	wt%	Internal method
Volatile Matter		%	
Films	Nominal Value	Unit	Test Method
Oxygen Permeability ¹ (20°C, 20 µm)	0.600	cm ³ /m ² /24 hr	Internal method
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	61.0	°C	DSC
Melting Temperature	183	°C	DSC
Peak Crystallization Temperature (DSC)	160	°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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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

