

EVAL™ C109B

Ethylene Vinyl Alcohol

EVAL Europe nv

Message:

EVAL™ C109B is an Ethylene Vinyl Alcohol (EVOH) product. It is available in Europe.

General Information			
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	1.17	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	9.3	g/10 min	
210°C/2.16 kg	21	g/10 min	
230°C/2.16 kg	42	g/10 min	
250°C/2.16 kg	70	g/10 min	
Ethylene Content	35.0	mol%	Internal Method
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	94		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2500	MPa	ISO 527-2
Tensile Stress (Break)	68.0	MPa	ISO 527-2
Tensile Strain (Break)	6.0	%	ISO 527-2
Flexural Modulus	4800	MPa	ISO 178
Films	Nominal Value	Unit	Test Method
Oxygen Permeability ¹			ISO 14663-2
20°C, 0% RH	6.0E-3	cm ³ ·mm/m ² /atm/24 hr	
20°C, 35% RH	6.0E-3	cm ³ ·mm/m ² /atm/24 hr	
20°C, 65% RH	0.012	cm ³ ·mm/m ² /atm/24 hr	
20°C, 85% RH	0.038	cm ³ ·mm/m ² /atm/24 hr	
20°C, 90% RH	0.062	cm ³ ·mm/m ² /atm/24 hr	
Water Vapor Transmission Rate ²	0.93	g·mm/m ² /atm/24 hr	ASTM E96
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength			ISO 179
--	1.0	kJ/m ²	
-40°C	1.0	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	53.0	°C	ISO 11357-2
Vicat Softening Temperature	166	°C	ISO 306
Melting Temperature	177	°C	ISO 11357-3
Peak Crystallization Temperature	154	°C	ISO 11357-3

NOTE

- | | |
|----|-------------|
| 1. | Annex C |
| 2. | Procedure E |

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



WECHAT