

EVAL™ E105

Ethylene Vinyl Alcohol

Kuraray Co., Ltd.

Message:

44 mol% Ethylene Vinyl Alcohol Copolymer
E105A - non-lubricated pellets
E105B - Pellets are lubricated to facilitate material feeding into extruder

General Information			
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	1.14	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	5.7	g/10 min	
210°C/2.16 kg	13	g/10 min	
Ethylene Content	44.0	wt%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	80		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2300	MPa	ISO 527-2
Tensile Stress (Break)	29.0	MPa	ISO 527-2
Tensile Strain (Break)	11	%	ISO 527-2
Flexural Modulus	4800	MPa	ISO 178
Films	Nominal Value	Unit	Test Method
Oxygen Permeability			ISO 14663-2
20°C, 0% RH	0.016	cm ³ ·mm/m ² /atm/24 hr	
20°C, 65% RH	0.030	cm ³ ·mm/m ² /atm/24 hr	
20°C, 85% RH	0.066	cm ³ ·mm/m ² /atm/24 hr	
Water Vapor Transmission Rate ¹ (40°C, 90% RH)	0.83	g·mm/m ² /atm/24 hr	ASTM E96
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	2.0	kJ/m ²	ISO 179/1U
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	53.0	°C	ISO 11357-2
Melting Temperature	165	°C	ISO 11357
Peak Crystallization Temperature	145	°C	ISO 11357-3
NOTE			
1.	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