

EVAL™ E105A

Ethylene Vinyl Alcohol

EVAL Europe nv

Message:

EVAL™ E105A is an Ethylene Vinyl Alcohol (EVOH) product. It is available in Europe.

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	
230°C/2.16 kg	25	g/10 min	
Ethylene Content	44.0	mol%	Internal Method
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 ¹			ISO 14663-2
20°C, 0% RH	0.016	cm ³ · mm/m ² /atm/24 hr	
20°C, 35% RH	0.022	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	
20°C, 90% RH	0.088	cm ³ · mm/m ² /atm/24 hr	
Water Vapor Transmission Rate ²	0.81	g · mm/m ² /atm/24 hr	ASTM E96
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength			ISO 179
--	2.0	kJ/m ²	
-40°C	2.0	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	53.0	°C	ISO 11357-2
Vicat Softening Temperature	156	°C	ISO 306
Melting Temperature	165	°C	ISO 11357-3
Peak Crystallization Temperature	145	°C	ISO 11357-3
NOTE			

1.	Annex C
2.	Procedure E

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