

EVAL™ SP434A

Ethylene Vinyl Alcohol

EVAL Europe nv

Message:

EVAL™ SP434A is an Ethylene Vinyl Alcohol (EVOH) product. It is available in Europe.

General Information			
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	1.18	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	4.9	g/10 min	
210°C/2.16 kg	11	g/10 min	
230°C/2.16 kg	20	g/10 min	
250°C/2.16 kg	28	g/10 min	
Ethylene Content	32.0	mol%	Internal Method
Carbon Dioxide Transmission Rate	0.078	cm ³ · mm/m ² /atm/24 hr	Internal Method
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	94		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2700	MPa	ISO 527-2
Tensile Stress (Break)	29.0	MPa	ISO 527-2
Tensile Strain (Break)	20	%	ISO 527-2
Flexural Modulus	4700	MPa	ISO 178
Films	Nominal Value	Unit	Test Method
Oxygen Permeability ¹			ISO 14663-2
20°C, 65% RH	0.010	cm ³ · mm/m ² /atm/24 hr	
20°C, 85% RH	0.052	cm ³ · mm/m ² /atm/24 hr	
Water Vapor Transmission Rate ²	2.7	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	55.0	°C	ISO 11357-2
Vicat Softening Temperature	160	°C	ISO 306
Melting Temperature	181	°C	ISO 11357-3
Peak Crystallization Temperature	158	°C	ISO 11357-3
NOTE			
1.	Annex C		

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