

EVAL™ FP101B

Ethylene Vinyl Alcohol

EVAL Europe nv

Message:

EVAL™ FP101B is an Ethylene Vinyl Alcohol (EVOH) product. It is available in Europe.

General Information			
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	1.19	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	1.6	g/10 min	
210°C/2.16 kg	3.8	g/10 min	
230°C/2.16 kg	6.2	g/10 min	
Ethylene Content	32.0	mol%	Internal Method
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	100		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2700	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield	83.0	MPa	
Break	34.0	MPa	
Tensile Strain			ISO 527-2
Yield	6.0	%	
Break	15	%	
Flexural Modulus	3800	MPa	ISO 178
Films	Nominal Value	Unit	Test Method
Oxygen Permeability ¹			ISO 14663-2
20°C, 0% RH	4.0E-3	cm ³ ·mm/m ² /atm/24 hr	
20°C, 65% RH	8.0E-3	cm ³ ·mm/m ² /atm/24 hr	
20°C, 85% RH	0.030	cm ³ ·mm/m ² /atm/24 hr	
20°C, 90% RH	0.060	cm ³ ·mm/m ² /atm/24 hr	
Water Vapor Transmission Rate ²	1.6	g·mm/m ² /atm/24 hr	ASTM E96
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength			ISO 179
--	2.5	kJ/m ²	
-30°C	1.0	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	69.0	°C	ISO 11357-2
Vicat Softening Temperature	173	°C	ISO 306

Melting Temperature	183	°C	ISO 11357-3
Peak Crystallization Temperature	161	°C	ISO 11357-3
NOTE			
1.	Annex C		
2.	Procedure E		

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