

EVAL™ F171B

Ethylene Vinyl Alcohol

EVAL Europe nv

Message:

EVAL™ F171B 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/cm³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	1.6	g/10 min	
210°C/2.16 kg	3.7	g/10 min	
230°C/2.16 kg	6.3	g/10 min	
250°C/2.16 kg	9.3	g/10 min	
Ethylene Content	32.0	mol%	Internal Method
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	90		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2700	MPa	ISO 527-2
Tensile Stress (Break)	34.0	MPa	ISO 527-2
Tensile Strain (Break)	15	%	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	cm³·mm/m²/atm/24 hr	
20°C, 35% RH	6.0E-3	cm³·mm/m²/atm/24 hr	
20°C, 65% RH	8.0E-3	cm³·mm/m²/atm/24 hr	
20°C, 85% RH	0.030	cm³·mm/m²/atm/24 hr	
20°C, 90% RH	0.060	cm³·mm/m²/atm/24 hr	
Water Vapor Transmission Rate ²	1.4	g·mm/m²/atm/24 hr	ASTM E96
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength			ISO 179
--	2.0	kJ/m²	
-40°C	2.0	kJ/m²	
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	57.0	°C	ISO 11357-2
Vicat Softening Temperature	170	°C	ISO 306
Melting Temperature	183	°C	ISO 11357-3
Peak Crystallization Temperature	158	°C	ISO 11357-3

NOTE

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

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