

# EVAL™ SP521B

Ethylene Vinyl Alcohol

EVAL Europe nv

## Message:

EVAL™ SP521B 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 <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	1.9	g/10 min	
210°C/2.16 kg	4.3	g/10 min	
230°C/2.16 kg	7.9	g/10 min	
250°C/2.16 kg	13	g/10 min	
Ethylene Content	27.0	mol%	Internal Method
Carbon Dioxide Transmission Rate	0.050	cm <sup>3</sup> · mm/m <sup>2</sup> /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	2800	MPa	ISO 527-2
Tensile Stress (Break)	38.0	MPa	ISO 527-2
Tensile Strain (Break)	15	%	ISO 527-2
Flexural Modulus	4700	MPa	ISO 178
Films	Nominal Value	Unit	Test Method
Oxygen Permeability <sup>1</sup>			ISO 14663-2
20°C, 65% RH	6.0E-3	cm <sup>3</sup> · mm/m <sup>2</sup> /atm/24 hr	
20°C, 85% RH	0.026	cm <sup>3</sup> · mm/m <sup>2</sup> /atm/24 hr	
Water Vapor Transmission Rate <sup>2</sup>	2.3	g · mm/m <sup>2</sup> /atm/24 hr	ASTM E96
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength			ISO 179
--	2.0	kJ/m <sup>2</sup>	
-40°C	2.0	kJ/m <sup>2</sup>	
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	40.0	°C	ISO 11357-2
Vicat Softening Temperature	170	°C	ISO 306
Melting Temperature	187	°C	ISO 11357-3
Peak Crystallization Temperature	162	°C	ISO 11357-3
NOTE			
1.	Annex C		

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