

EVAL™ SP482B

Ethylene Vinyl Alcohol

EVAL Europe nv

Message:

EVAL™ SP482B is an Ethylene Vinyl Alcohol (EVOH) product. It is available in Europe.

General Information			
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	1.16	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	2.0	g/10 min	
210°C/2.16 kg	4.1	g/10 min	
230°C/2.16 kg	7.6	g/10 min	
250°C/2.16 kg	13	g/10 min	
Ethylene Content	32.0	mol%	Internal Method
Carbon Dioxide Transmission Rate	0.11	cm ³ · mm/m ² /atm/24 hr	Internal Method
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	75		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2700	MPa	ISO 527-2
Tensile Stress (Break)	28.0	MPa	ISO 527-2
Tensile Strain (Break)	19	%	ISO 527-2
Films	Nominal Value	Unit	Test Method
Oxygen Permeability ¹			ISO 14663-2
20°C, 65% RH	0.012	cm ³ · mm/m ² /atm/24 hr	
20°C, 85% RH	0.040	cm ³ · mm/m ² /atm/24 hr	
Water Vapor Transmission Rate ²	2.4	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	41.0	°C	ISO 11357-2
Vicat Softening Temperature	150	°C	ISO 306
Melting Temperature	181	°C	ISO 11357-3
Peak Crystallization Temperature	158	°C	ISO 11357-3
NOTE			
1.	Annex C		
2.	Procedure E		

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519
Phone: +86 13424755533
Email: sales@su-jiao.com
No. 215, Lianhe North Road, Fengxian District, Shanghai, China

