

EVAL™ F171

Ethylene Vinyl Alcohol

Kuraray Co., Ltd.

Message:

32 mol% Ethylene Vinyl Alcohol Copolymer
F171A - non-lubricated pellets
F171B - Pellets are lubricated to facilitate material feeding into extruder

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	3.7	g/10 min	
Ethylene Content	32.0	wt%	
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			ISO 14663-2
20°C, 0% RH	5.9E-3	cm ³ ·mm/m ² /atm/24 hr	
20°C, 65% RH	7.9E-3	cm ³ ·mm/m ² /atm/24 hr	
20°C, 85% RH	0.030	cm ³ ·mm/m ² /atm/24 hr	
Water Vapor Transmission Rate ¹ (40°C, 90% RH)	1.3	g·mm/m ² /atm/24 hr	ASTM E96
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	2.0	kJ/m ²	ISO 179/1U
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	57.0	°C	ISO 11357-2
Melting Temperature	183	°C	ISO 11357
Peak Crystallization Temperature	158	°C	ISO 11357-3
NOTE			
1.	Procedure E		

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