

EVAL™ FP101

Ethylene Vinyl Alcohol

Kuraray Co., Ltd.

Message:

32 mol% Ethylene Vinyl Alcohol Copolymer
FP101A - non-lubricated pellets
FP101B - Pellets are lubricated to facilitate material feeding into extruder
FP101 is formulated to meet specific requirements for pipe applications.

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	
Ethylene Content	32.0	wt%	
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 (Break)	34.0	MPa	ISO 527-2
Tensile Strain (Break)	15	%	ISO 527-2
Films	Nominal Value	Unit	Test Method
Oxygen Permeability			ISO 14663-2
20°C, 0% RH	3.9E-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)	1.6	g·mm/m ² /atm/24 hr	ASTM E96
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	69.0	°C	ISO 11357-2
Melting Temperature	183	°C	ISO 11357
Peak Crystallization Temperature	161	°C	ISO 11357-3
NOTE			
1.	Procedure E		

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