

Generic EVOH

Ethylene Vinyl Alcohol

Generic

Message:

This data represents typical values that have been calculated from all products classified as: Generic EVOH
This information is provided for comparative purposes only.

General Information			
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.13 - 1.19	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			
210°C/2.16 kg	3.0 - 12	g/10 min	ASTM D1238
210°C/2.16 kg	3.1 - 13	g/10 min	ISO 1133
Ethylene Content	26.7 - 44.6	wt%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (23°C)	70 - 100		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2300 - 3020	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	24.3 - 68.0	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	11 - 17	%	ISO 527-2
Flexural Modulus (23°C)	4750 - 4800	MPa	ISO 178
Films	Nominal Value	Unit	Test Method
Oxygen Permeability (23°C)	0.387 - 1.52	cm ³ /m ² /24 hr	ASTM D1434
Oxygen Permeability (23°C)	1.0E-3 - 0.067	cm ³ ·mm/m ² /atm/24 hr	ASTM D3985
Water Vapor Transmission Rate (23°C)	0.78 - 1.6	g·mm/m ² /atm/24 hr	ASTM F1249
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	2.0	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature			
--	40.0 - 69.0	°C	ISO 11357-2
--	54.7 - 62.0	°C	DSC
Vicat Softening Temperature	145 - 179	°C	ISO 306
Melting Temperature			
--	164 - 189	°C	
--	160 - 192	°C	ISO 11357-3
Peak Crystallization Temperature			
--	141 - 164	°C	ISO 11357-3
--	144 - 164	°C	ASTM D3418
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	170 - 180	°C	

Cylinder Zone 2 Temp.	190 - 200	°C
Cylinder Zone 3 Temp.	210 - 220	°C
Cylinder Zone 4 Temp.	220 - 231	°C
Cylinder Zone 5 Temp.	220 - 231	°C
Adapter Temperature	220 - 231	°C

Extrusion instructions

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