

EVALCA EVAL® LC-L101A Ethylene Vinyl Alcohol Copolymer Resin (discontinued **)

Category : Polymer , Film , Thermoplastic , Ethylene Vinyl Alcohol (EVOH)

Material Notes:

27 mol % Ethylene. Data provided by EVALCA. Applications: Blown film, melt phase forming. Highest gas barrier EVOH available. EVOH is used in packaging applications because of its outstanding gas barrier properties. EVAL™ is now produced as a part of the Kuraray product line.

Order this product through the following link:

http://www.lookpolymers.com/polymer_EVALCA-EVAL-LC-L101A-Ethylene-Vinyl-Alcohol-Copolymer-Resin-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	ASTM D1505
Moisture Vapor Transmission	3.10 cc-mm/m ² -24hr-atm	7.87 cc-mil/100 in ² -24hr-atm	40°C, 90% RH
Oxygen Transmission	0.00400 cc-mm/m ² -24hr-atm	0.0102 cc-mil/100 in ² -24hr-atm	20°C; 65% RH; Permeability increases significantly at higher moisture content.
Melt Flow	3.9 g/10 min @Load 2.16 kg, Temperature 210 °C	3.9 g/10 min @Load 4.76 lb, Temperature 410 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	104	104	ASTM D785
Tensile Strength, Yield	94.0 MPa	13600 psi	10%/min. ASTM D638
Film Elongation at Break, MD	200 %	200 %	Orientation not specified; ASTM D882
Elongation at Yield	6.0 %	6.0 %	10%/min. ASTM D638
Modulus of Elasticity	3.10 GPa	450 ksi	Youngs Modulus, ASTM D638, 10%/min.
Flexural Yield Strength	150 MPa	21800 psi	Bending Strength; ASTM D790
Flexural Modulus	4.70 GPa	682 ksi	Bending Elasticity; ASTM D790
Izod Impact, Notched	0.600 J/cm	1.12 ft-lb/in	ASTM D256
Film Tensile Strength at Break, MD	72.0 MPa	10400 psi	Orientation not specified; ASTM D882

Thermal Properties	Metric	English	Comments
CTE, linear	40.0 µm/m-°C	22.2 µin/in-°F	Below Tg

Thermal Properties	Metric	English	Above To Comments
Specific Heat Capacity	2.40 J/g-°C	0.574 BTU/lb-°F	
Thermal Conductivity	0.340 W/m-K	2.36 BTU-in/hr-ft ² -°F	For EVAL F101
Melting Point	191 °C	376 °F	DSC
Deflection Temperature at 0.46 MPa (66 psi)	100 °C	212 °F	For EP-F101
Glass Transition Temp, Tg	72.0 °C	162 °F	Dynamic Viscoelasticity

Optical Properties	Metric	English	Comments
Haze	1.8 %	1.8 %	Film; ASTM D1003
Gloss	85 %	85 %	45°; Film; ASTM D2457

Electrical Properties	Metric	English	Comments
Dielectric Constant	5.6	5.6	Frequency Not Specified
Dissipation Factor	0.18	0.18	Frequency Not Specified

Processing Properties	Metric	English	Comments
Melt Temperature	<= 240 °C	<= 464 °F	

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