

EVALCA EVAL® LC-T101 Ethylene Vinyl Alcohol Copolymer Resin (discontinued **)

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

Material Notes:

32 mol % Ethylene. Data provided by EVALCA. Applications: Solid phase pressure forming. 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-T101-Ethylene-Vinyl-Alcohol-Copolymer-Resin-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.18 g/cc	0.0426 lb/in ³	ASTM D1505
Moisture Vapor Transmission	1.50 cc-mm/m ² -24hr-atm	3.81 cc-mil/100 in ² -24hr-atm	40°C, 90% RH
Oxygen Transmission	0.0100 cc-mm/m ² -24hr-atm	0.0254 cc-mil/100 in ² -24hr-atm	20°C; 65% RH; Permeability increases significantly at higher moisture content.
Melt Flow	1.8 g/10 min	1.8 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	
	4.4 g/10 min	4.4 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 210 °C	@Load 4.76 lb, Temperature 410 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	95	95	ASTM D785
Tensile Strength, Yield	71.0 MPa	10300 psi	10%/min. ASTM D638
Film Elongation at Break, MD	270 %	270 %	Orientation not specified; ASTM D882
Modulus of Elasticity	1.90 GPa	276 ksi	Youngs Modulus, ASTM D638, 10%/min.
Film Tensile Strength at Break, MD	65.0 MPa	9430 psi	Orientation not specified; ASTM D882

Thermal Properties	Metric	English	Comments
CTE, linear	60.0 µm/m-°C	33.3 µin/in-°F	Below Tg
	120 µm/m-°C	66.7 µin/in-°F	Above Tg
Specific Heat Capacity	2.40 J/g-°C	0.574 BTU/lb-°F	Estimated by MatWeb from similar grades

Thermal Properties	0.340 W/m-K Metric	2.36 BTU-in/hr-ft ² -°F English	For EVAL F101 Comments
Melting Point	183 °C	361 °F	DSC
Deflection Temperature at 0.46 MPa (66 psi)	100 °C	212 °F	For EP-F101
Vicat Softening Point	173 °C	343 °F	For EP-F101
Glass Transition Temp, Tg	69.0 °C	156 °F	Dynamic Viscoelasticity

Optical Properties	Metric	English	Comments
Haze	1.9 %	1.9 %	Film; ASTM D1003
Gloss	85 %	85 %	45°; Film; ASTM D2457

Electrical Properties	Metric	English	Comments
Dielectric Constant	5.5	5.5	Frequency Not Specified
Dissipation Factor	0.21	0.21	Frequency Not Specified

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

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