

EVALCA EVAL® EP-J102B Ethylene Vinyl Alcohol Copolymer Resin (discontinued **)

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

Material Notes:

32 mol % Ethylene. Data provided by EVALCA. Designed to provide a wide thermoforming range together with high barrier properties. EVAL® EP-J102B is specifically designed for thermoforming applications using polystyrene and polyethylene structural layers. This resin can be used with SPPF or melt phase forming techniques. 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-EP-J102B-Ethylene-Vinyl-Alcohol-Copolymer-Resin-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.17 g/cc	0.0423 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	0.0120 cc-mm/m ² -24hr-atm	0.0305 cc-mil/100 in ² -24hr-atm	20°C; 65% RH; Permeability increases significantly at higher moisture content.
Melt Flow	2.0 g/10 min	2.0 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	
	4.9 g/10 min	4.9 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	Estimated by MatWeb from similar grades
Tensile Strength, Yield	69.0 MPa	10000 psi	Estimated by MatWeb from similar grades
Film Elongation at Break, MD	270 %	270 %	Orientation not specified; ASTM D882
Modulus of Elasticity	2.00 GPa	290 ksi	Estimated by MatWeb from similar grades
Film Tensile Strength at Break, MD	57.0 MPa	8270 psi	Orientation not specified; ASTM D882

Thermal Properties	Metric	English	Comments
CTE, linear	65.0 µm/m-°C	36.1 µin/in-°F	Estimated by MatWeb from similar grades
	@Temperature 20.0 °C	@Temperature 68.0 °F	

Thermal Properties	Metric 100 mm/m-°C	English 65.7 in/in-°F	Comments
	@Temperature 100 °C	@Temperature 212 °F	Estimated by MatWeb from similar grades
Specific Heat Capacity	2.40 J/g-°C	0.574 BTU/lb-°F	Estimated by MatWeb from similar grades
Thermal Conductivity	0.340 W/m-K	2.36 BTU-in/hr-ft ² -°F	For EVAL F101
Melting Point	183 °C	361 °F	DSC
Deflection Temperature at 0.46 MPa (66 psi)	90.0 °C	194 °F	For EP-H101
Vicat Softening Point	165 °C	329 °F	For EP-H101
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
Processing Temperature	215 °C	419 °F	Die temperature

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