

## EVALCA EVAL® G110 Ethylene Vinyl Alcohol Copolymer Resin (discontinued \*\*)

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

### Material Notes:

48 mol % Ethylene. Data provided by EVALCA. 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-G110-Ethylene-Vinyl-Alcohol-Copolymer-Resin-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_EVALCA-EVAL-G110-Ethylene-Vinyl-Alcohol-Copolymer-Resin-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Density	1.12 g/cc	0.0405 lb/in <sup>3</sup>	ASTM D1505
Moisture Vapor Transmission	0.540 cc-mm/m <sup>2</sup> -24hr-atm	1.37 cc-mil/100 in <sup>2</sup> -24hr-atm	40°C, 90% RH
Oxygen Transmission	0.0640 cc-mm/m <sup>2</sup> -24hr-atm	0.163 cc-mil/100 in <sup>2</sup> -24hr-atm	20°C; 65% RH; Permeability increases significantly at higher moisture content.
Melt Flow	15 g/10 min @Load 2.16 kg, Temperature 190 °C	15 g/10 min @Load 4.76 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	85	85	Estimated by MatWeb from similar grades
Tensile Strength, Ultimate	37.0 MPa	5370 psi	10%/min; ASTM D638
Tensile Strength, Yield	43.0 MPa	6240 psi	10%/min. ASTM D638
Elongation at Break	330 %	330 %	10%/min. ASTM D638
Elongation at Yield	3.0 %	3.0 %	10%/min. ASTM D638
Modulus of Elasticity	2.40 GPa	348 ksi	Youngs Modulus, ASTM D638, 10%/min.

Thermal Properties	Metric	English	Comments
CTE, linear	100 µm/m-°C	55.6 µin/in-°F	Below Tg
	130 µm/m-°C	72.2 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 Conductivity	0.340 W/m-K	2.36 BTU-in/hr-ft <sup>2</sup> -°F	For EVAL F101

Melting Point Thermal Properties	156 °C Metric	313 °F English	DSC Comments
Vicat Softening Point	155 °C	311 °F	For EP-E105
Glass Transition Temp, Tg	48.0 °C	118 °F	Dynamic Viscoelasticity

Optical Properties	Metric	English	Comments
Haze	1.9 %	1.9 %	Estimated by MatWeb from similar grades
Gloss	85 %	85 %	Estimated by MatWeb from similar grades

Electrical Properties	Metric	English	Comments
Dielectric Constant	4.8	4.8	Frequency Not Specified
Dissipation Factor	0.22	0.22	Frequency Not Specified

## Contact Songhan Plastic Technology Co.,Ltd.

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