

Gromax Evasin EV-3201V Ethylene-Vinyl Alcohol Copolymer

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

Material Notes:

Unmodified random Co-Polymer of [Ethylene-Vinyl alcohol], designed for therm-plastic processing into Sheets and Foils with high Oxygen and Aroma Barrier Effect. Information provided by Gromax Enterprises Corp.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Gromax-Evasin-EV-3201V-Ethylene-Vinyl-Alcohol-Copolymer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.18 g/cc	1.18 g/cc	ASTM D792
Water Vapor Transmission	275 g/m ² /day @Temperature 40.0 °C	17.7 g/100 in ² /day @Temperature 104 °F	90% RH; ASTM E96
Oxygen Transmission	0.600 cc-mm/m ² -24hr-atm @Temperature 25.0 °C	1.52 cc-mil/100 in ² -24hr-atm @Temperature 77.0 °F	0% RH; ASTM D3985
Viscosity	1.09 cP @Temperature 230 °C	1.09 cP @Temperature 446 °F	?=200 sec⁻¹
	1.33 cP @Temperature 230 °C	1.33 cP @Temperature 446 °F	?=100 sec⁻¹
	1.56 cP @Temperature 230 °C	1.56 cP @Temperature 446 °F	?=50 sec⁻¹
	1.75 cP @Temperature 210 °C	1.75 cP @Temperature 410 °F	?=200 sec⁻¹
	2.21 cP @Temperature 210 °C	2.21 cP @Temperature 410 °F	?=100 sec⁻¹
	2.68 cP @Temperature 210 °C	2.68 cP @Temperature 410 °F	?=50 sec⁻¹
	2.88 cP @Temperature 190 °C	2.88 cP @Temperature 374 °F	?=200 sec⁻¹
	3.73 cP @Temperature 190 °C	3.73 cP @Temperature 374 °F	?=100 sec⁻¹
4.57 cP @Temperature 190 °C	4.57 cP @Temperature 374 °F	?=50 sec⁻¹	

Physical Properties	Metric	English	Comments
Melt Flow	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	
	3.6762 g/10 min	3.6762 g/10 min	
	@Load 2.16 kg, Temperature 210 °C	@Load 4.76 lb, Temperature 410 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	84	84	ASTM D2240D
Tensile Strength at Break	63.1 MPa	9150 psi	ASTM D638
Tensile Strength, Yield	72.7 MPa	10500 psi	ASTM D638
Elongation at Break	180 %	180 %	ASTM D638
Elongation at Yield	5.6 %	5.6 %	ASTM D638
Tensile Modulus	3.65 GPa	529 ksi	ASTM D638
Flexural Strength	126.3 MPa	18320 psi	ASTM D790
Flexural Modulus	4.32 GPa	627 ksi	ASTM D790
Izod Impact, Notched	>= 0.304 J/cm	>= 0.569 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	46.0 µm/m-°C	25.6 µin/in-°F	below Tg
	56.0 µm/m-°C	31.1 µin/in-°F	above Tg
Melting Point	184.86 °C	364.75 °F	
Crystallization Temperature	163 °C	325 °F	DSC
Deflection Temperature at 0.46 MPa (66 psi)	94.4 °C	202 °F	ASTM D648
Vicat Softening Point	173.8 °C	344.8 °F	JIS-K6742
Glass Transition Temp, Tg	73.9 °C	165 °F	

Processing Properties	Metric	English	Comments
Moisture Content	<= 0.30 %	<= 0.30 %	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China