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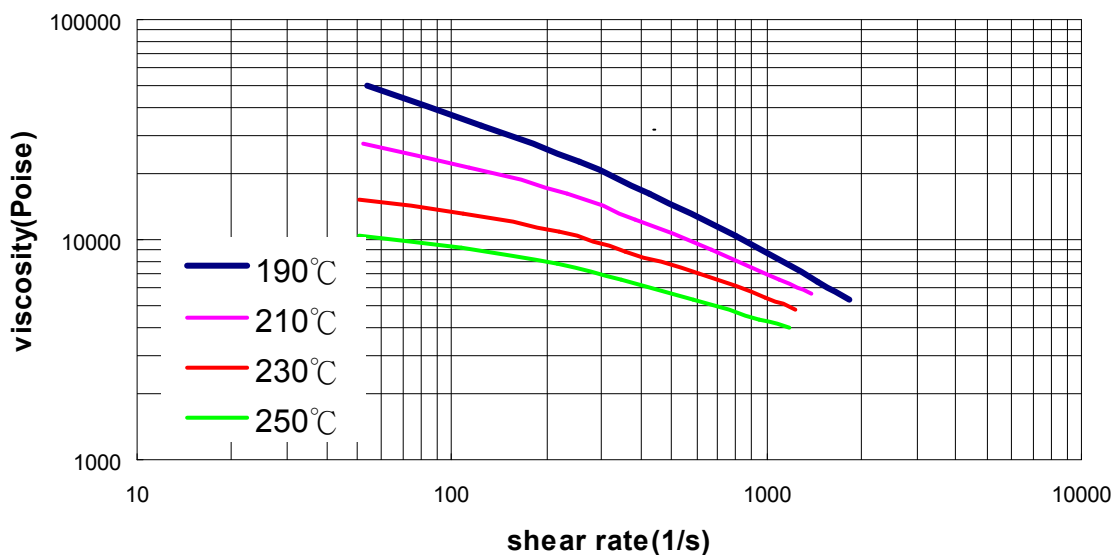
EVASIN EV3201F DATA SHEET

32 mole%Ethylene Vinyl Alcohol Copolymer

Item	unit	Test Method	Value
Mechanical Properties			
Tensile strength at yield	MPa	ISO 527	83.6
Tensile strength at break	MPa	ISO 527	33.6
Elongation at break	%	ISO 527	15.2
Young's modulus	MPa	ISO 527	4510
Flexural modulus	MPa	ISO 178	4200
Flexural strength	MPa	ISO 178	126
Charpy impact strength	KJ/m ²	ISO 179-1	2.94
Rockwell hardness	HRM	ISO 2039-2	92
Density	g/cm ³	ISO 1183	1.18
Thermal Properties and Melt Characteristics			
Melting point	°C	ISO 11357	183
Crystallization point	°C	ISO 11357	161
Glass transition point	°C	ISO 11357	61
Vicat softening point	°C	ISO 306	174
Melt flow index	g/10min(2160g,190°C)	ISO 1133	1.7
	g/10min(2160g,210°C)	ISO 1133	--
Gas Barrier Properties			
O ₂ Transmission Rate at 20°C 0%RH at 20°C 65%RH at 20°C 85%RH	cm ³ .20µm/m ² .24Hrs.atm	ISO 14663-2	0.2
			0.3
			1.5
Water Vapor Transmission Rate	cm ³ .30µm/m ² .24Hrs.atm at 40°C 90%RH	ASTM E96-E	51

Melt Viscosity

EV-3201 Melt Viscosity Curve



Example of Processing Temperature Profile

	Barrel 1	Barrel 2	Barrel 3	Barrel 4	Barrel 5	Adapter	Die
EV3201F	180	200	205	215	220	220	215

All data, descriptions and information given herein are carefully evaluated in our analytical department or by reliable polymer institutes and only mean typical characteristics; they are not elements of our COA, but should assist users for quick technical setups. Formulation, processing and final application of end-products based on EVASIN EV3201F are customers' responsibility only.

Furthermore, users are encouraged to check for the patent situation concerning their projected end products.