



益膜新

EVASIN EV3251FT DATA SHEET

32 mole%Ethylene Vinyl Alcohol Copolymer

Application

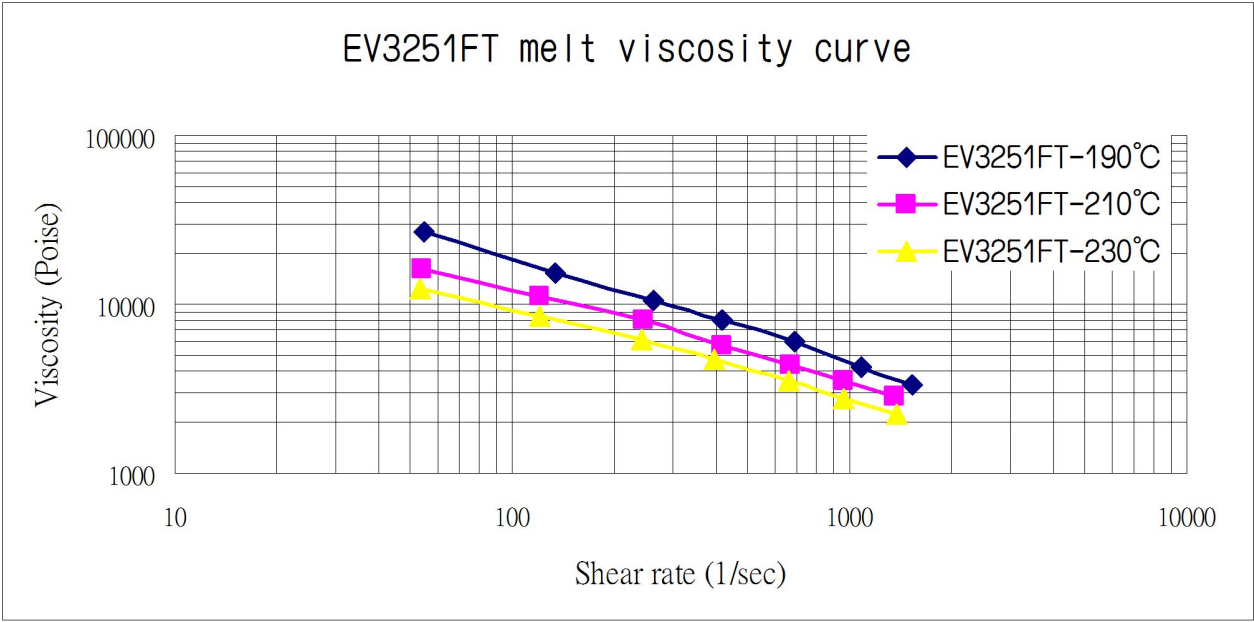
EV3251FT is a standard grade mainly designed for thermoforming application. This resin can provide more flexibility during stretch process. After modification, EVASIN EV3251FT still has excellent barrier to various gases. This resin also shows very excellent thermal stability on long run process .

General Property

Item	unit	Test Method	Value
Mechanical Properties			
Tensile strength at yield	MPa	ISO 527	79.2
Tensile strength at break	MPa	ISO 527	31
Young's modulus	MPa	ISO 527	4,430
Elongation at break	%	ISO 527	18.2
Flexural modulus	MPa	ISO 178	3,970
Flexural strength	MPa	ISO 178	114
Charpy impact strength	KJ/m ²	ISO 179-1	2.56
Rockwell hardness	HRM	ISO 2039-2	90
Density	g/cm ³	ISO 1183	1.17
Thermal Properties and Melt Characteristics			
Melting point	°C	ISO 11357	183
Crystallization point	°C	ISO 11357	155
Glass transition point	°C	ISO 11357	57
Vicat Softening Point	°C	ISO 306	164
Melt flow index	g/10min(2160g,190°C)	ISO 1133	1.9
	g/10min(2160g,210°C)	ISO 1133	4.3
Gas Barrier Properties			
O ₂ Transmission Rate	cm ³ .20μm/m ² .24Hrs.atm	ISO 14663-2	0.35
at 20°C 0%RH			0.5
at 20°C 65%RH			1.8
at 20°C 85%RH			
Water Vapor Transmission Rate	cm ³ .30μm/m ² .24Hrs.atm at 40°C 90%RH	ASTM E96-E	50



Melt Viscosity



Example of Processing Temperature Profile

	Barrel 1	Barrel 2	Barrel 3	Barrel 4	Barrel 5	Adapter	Die
EV3251FT	180	200	205	215	220	215	215

