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## EVASIN EV3251FT DATA SHEET

### 32 mole%Ethylene Vinyl Alcohol Copolymer

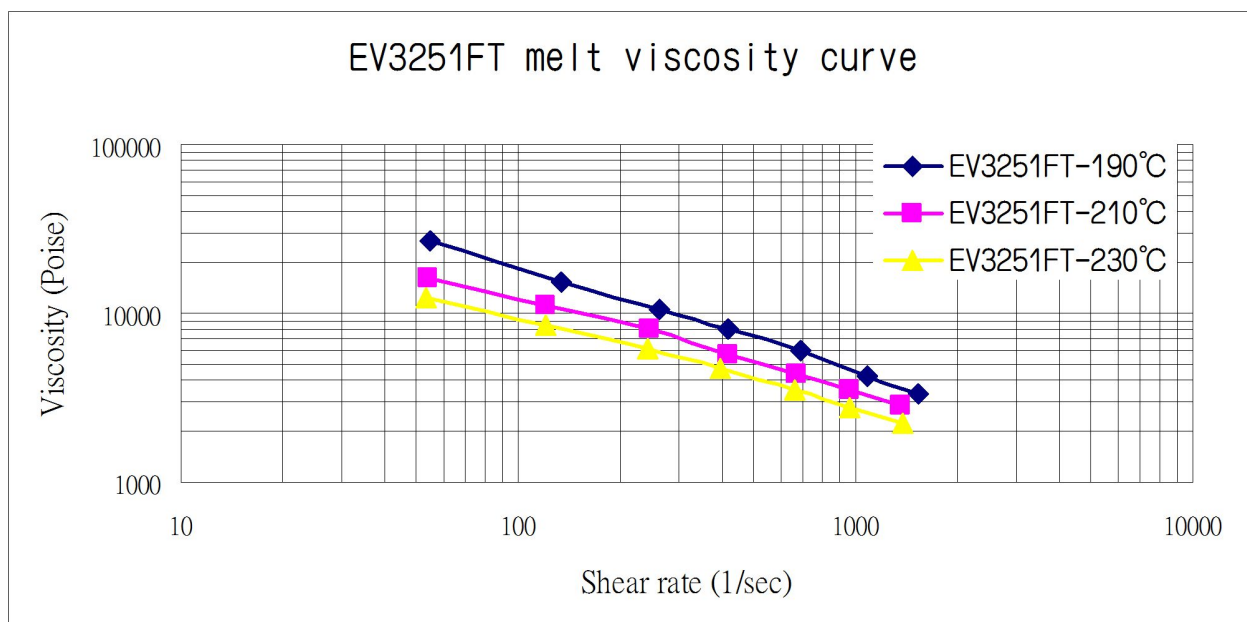
#### Application

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
<b>Mechanical Properties</b>			
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 <sup>2</sup>	ISO 179-1	2.56
Rockwell hardness	HRM	ISO 2039-2	90
Density	g/cm <sup>3</sup>	ISO 1183	1.17
<b>Thermal Properties and Melt Characteristics</b>			
Melting point	°C	ISO 11357	183
Crystalization 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
<b>Gas Barrier Properties</b>			
O <sub>2</sub> Transmission Rate at 20°C 0%RH at 20°C 65%RH at 20°C 85%RH	cm <sup>3</sup> .20µm/m <sup>2</sup> .24Hrs.atm	ISO 14663-2	0.35
			0.5
			1.8
Water Vapor Transmission Rate	cm <sup>3</sup> .30µm/m <sup>2</sup> .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

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 EV3251FT are customers' responsibility only.

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