



益膜新

## EVASIN EV2951F DATA SHEET

### 29 mole% Ethylene Vinyl Alcohol Copolymer

#### Application

EV2951F with lower melt flow index is specially designed for co-extrusion cast or blown application. This resin can also be used in bottle and pipe application.

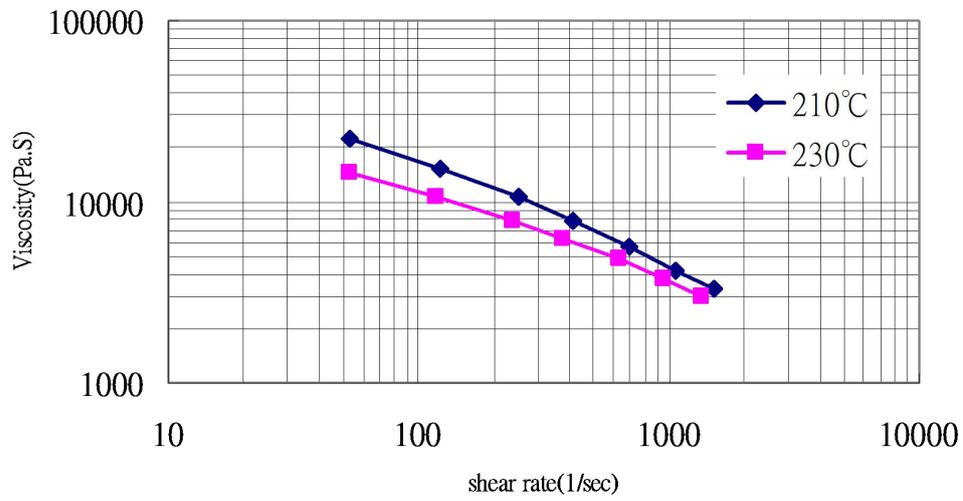
#### General Property

Item	unit	Test Method	Value
<b>Mechanical Properties</b>			
Tensile strength at yield	MPa	ISO 527	85.8
Tensile strength at break	MPa	ISO 527	35.7
Elongation at break	%	ISO 527	19.6
Young's modulus	MPa	ISO 527	4,580
Flexural modulus	MPa	ISO 178	4,300
Flexural strength	MPa	ISO 178	130
Charpy impact strength	KJ/m <sup>2</sup>	ISO 179-1	2.27
Rockwell hardness	M	ISO 2039-2	--
Density	g/cm <sup>3</sup>	ISO 1183	1.19
<b>Thermal Properties and Melt Characteristics</b>			
Melting point	°C	ISO 11357	188
Crystallization point	°C	ISO 11357	163
Glass transition point	°C	ISO 11357	62
Vicat Softening Point	°C	ISO 306	175.3
Melt flow index	g/10min(2160g,190°C)	ISO 1133	---
	g/10min(2160g,210°C)	ISO 1133	2.5
<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	0.1
			0.2
			1.3
Water Vapor Transmission Rate	cm <sup>3</sup> .30µm/m <sup>2</sup> .24Hrs.atm at 40°C 90%RH	ASTM E96-E	55



## Melt Viscosity

### EV2951 melt viscosity curve



## Example of Processing Temperature Profile

	Barrel 1	Barrel 2	Barrel 3	Barrel 4	Barrel 5	Adapter	Die
EV2951F	185	205	210	215	220	220	215

