



益膜新

# CHANG CHUN PETROCHEMICAL CO.,LTD.

301 Songkiang Road, 7F, Taipei, TAIWAN

Tel : +886-2-25038131

Fax : +886-2-25018018

## EVASIN EV2951F DATA SHEET

### 29 mole% Ethylene Vinyl Alcohol Copolymer

#### Application

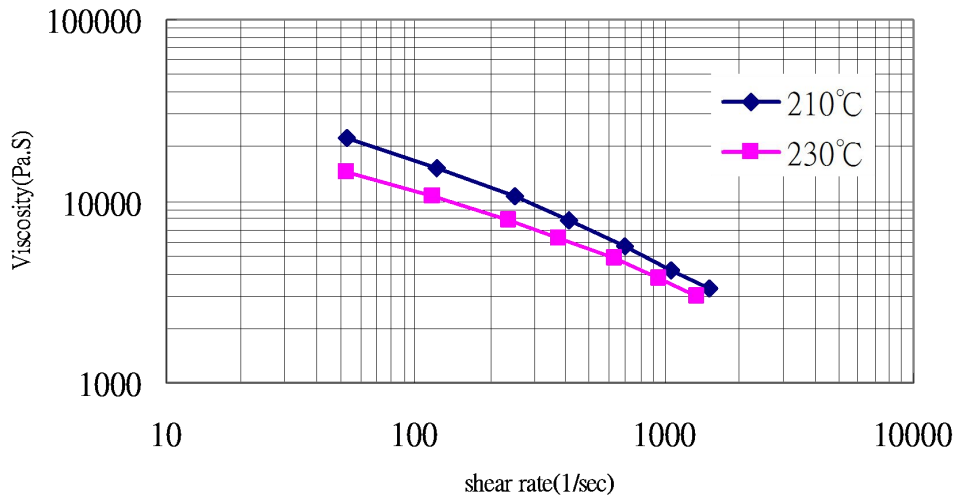
EV2951F with lower melt flow index is specially designed for co-extrusion cast or blown application. This resin can also be used in bottle and pipe application.

#### 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
Crystalization 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 at 40°C 90%RH	cm <sup>3</sup> .30µm/m <sup>2</sup> .24Hrs.atm	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

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 EV2951F are customers' responsibility only.

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