



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.

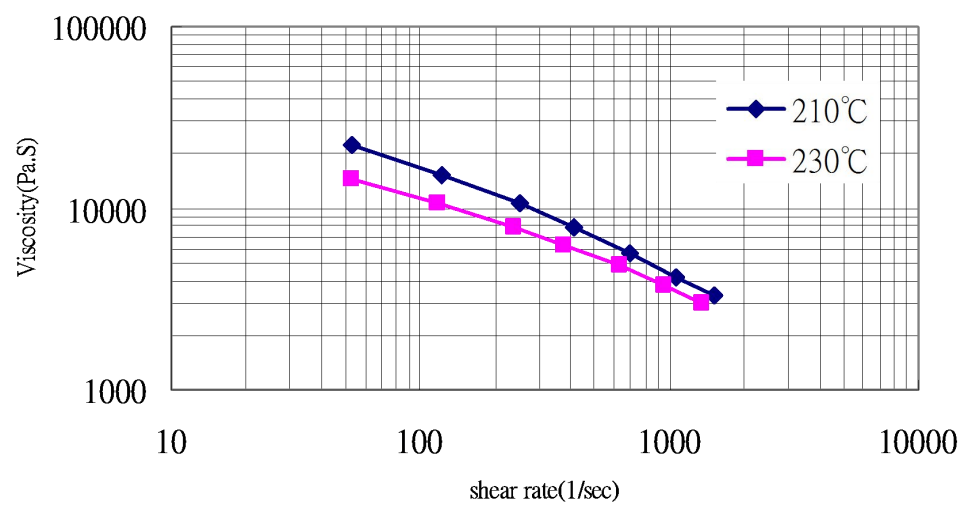
General Property

Item	unit	Test Method	Value
Mechanical Properties			
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 ²	ISO 179-1	2.27
Rockwell hardness	M	ISO 2039-2	--
Density	g/cm ³	ISO 1183	1.19
Thermal Properties and Melt Characteristics			
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
Gas Barrier Properties			
O ₂ Transmission Rate at 20°C 0%RH	cm ³ .20μm/m ² .24Hrs.atm	ISO 14663-2	0.1
at 20°C 65%RH			0.2
at 20°C 85%RH			1.3
Water Vapor Transmission Rate	cm ³ .30μm/m ² .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

