



301 Songkiang Road, 7F,
 Taipei, TAIWAN
 Tel: (02)2503-8131
 Fax: (02)2501-8018

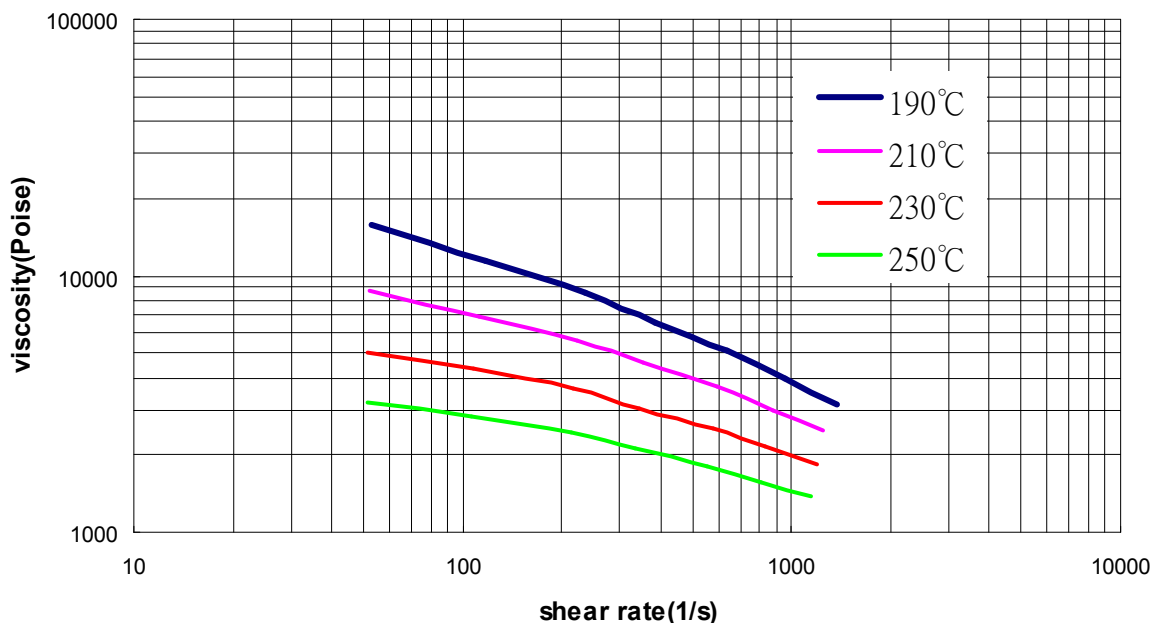
EVASIN EV4405F DATA SHEET

44 mole%Ethylene Vinyl Alcohol Copolymer

Item	unit	Test Method	Value
Mechanical Properties			
Tensile strength at yield	MPa	ISO 527	65.3
Tensile strength at break	MPa	ISO 527	24.8
Elongation at break	%	ISO 527	24.6
Young's modulus	MPa	ISO 527	3660
Flexural modulus	MPa	ISO 178	3340
Flexural strength	MPa	ISO 178	98.9
Charpy impact strength	KJ/m ²	ISO 179-1	2.63
Rockwell hardness	HRM	ISO 2039-2	84
Density	g/cm ³	ISO 1183	1.14
Thermal Properties and Melt Characteristics			
Melting point	°C	ISO 11357	165
Crystalization point	°C	ISO 11357	146
Glass transition point	°C	ISO 11357	55
Vicat softening point	°C	ISO 306	156
Melt flow index	g/10min(2160g,190°C)	ISO 1133	5.5
	g/10min(2160g,210°C)	ISO 1133	12
Gas Barrier Properties			
O ₂ Transmission Rate at 20°C 0%RH at 20°C 65%RH at 20°C 85%RH	cm ³ .20µm/m ² .24Hrs.atm	ISO 14663-2	0.8
			1.8
			3.4
Water Vapor Transmission Rate	cm ³ .30µm/m ² .24Hrs.atm at 40°C 90%RH	ASTM E96-E	19

Melt Viscosity

EV-4405 Melt Viscosity Curve



Example of Processing Temperature Profile

Grade	Barrel 1	Barrel 2	Barrel 3	Barrel 4	Barrel 5	Adapter	Die
EV4405F	170	190	200	205	210	200	200

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 EV-4405F are customers' responsibility only.

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