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EVASIN EV3851F DATA SHEET

38 mole% Ethylene Vinyl Alcohol Copolymer

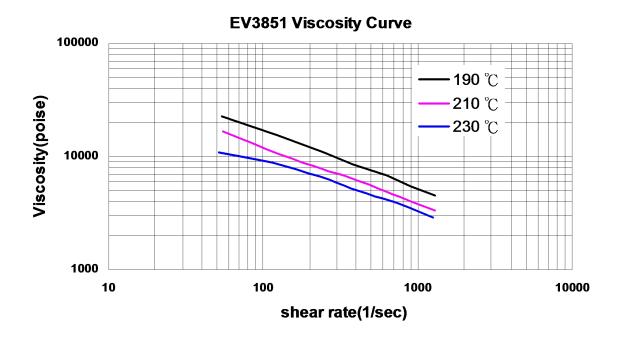
Application

EV3851F with low melt flow index is a standard grade mainly designed for co-extrusion film application. This resin shows excellent balance among barrier to gases as well as processing thermal stability. This resin can also be recommended for sheet / thermoforming and shrink application.

General Property

Item	unit	Test Method	Value						
Mechanical Properties									
Tensile strength at yield	MPa	Pa ISO 527							
Tensile strength at break	MPa	ISO 527	27.7						
Elongation at break	%	ISO 527	19						
Young's modulous	MPa	ISO 527	4000						
Flexural modulous	MPa	ISO 178	3690						
Flexural strength	MPa	ISO 178	112						
Charpy impact strength	KJ/m ²	ISO 179-1	2.4						
Rockwell hardness	HRM	ISO 2039-2	91						
Density	g/cm ³	ISO 1183	1.16						
Thermal Properties and Melt Characteristics									
Melting point	${\mathbb C}$	ISO 11357	173						
Crystalization point	${\mathbb C}$	ISO 11357	151						
Glass transition point	${\mathbb C}$	ISO 11357	57						
Vicat Softening Point	${\mathbb C}$	ISO 306	162						
Melt flow index	g/10min(2160g,190°C)	ISO 1133	1.8						
	g/10min(2160g,210°C)	ISO 1133	3.9						
Gas Barrier Properties									
O ₂ Transmission Rate									
at 20℃ 0%RH	3 20 / 2 2 4 11 2 4	ISO 14663-2	0.5						
at 20℃ 65%RH	cm ³ .20µm/m ² .24Hrs.atm		0.7						
at 20℃ 85%RH			2						
Water Vapor Transmission Rate	cm ³ .30μm/m ² .24Hrs.atm at 40°C 90%RH	ASTM E96-E	28						

Melt Viscosity



Example of Processing Temperature Profile

	Barrel 1	Barrel 2	Barrel 3	Barrel 4	Barrel 5	Adapter	Die
EV3851F	175	195	205	210	215	210	210

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 EV3851F are customers' responsibility only.

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