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江苏象化科技有限公司
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Technical Date Sheet of EVOH EW-3801

Chemical Name: 38mol% Ethylene-Vinyl Alcohol Copolymer (EW-3801)
CAS NO.: 26221-27-2
Appearance: White transparent particle
Melting index (190℃,2160g/10min): 1.5-2.5
Chroma: ≤20
Volatile content(%): ≤0.3
Ethylene(mol%): 36.0-40.0
Density (g/cm3): 1.10-1.20

Technical Data of 38mol% Ethylene-Vinyl Alcohol Copolymer (EW-3801):

Typical Properties	Unit	Test Method	Metric
MFR	g/10min	ISO1133(190℃)	1.8
Density	10^3kg/m³	ISO1183-3	1.16
Thermal Properties	**Unit**	**Test Method**	**Metric**
Melting Temperature	℃(℉)	ISO 11357	173
Crystallization Temperature	℃(℉)	ISO 11357	152
Glass Transition Point	℃(℉)	ISO 11357	57
Vicat Softening Point	℃(℉)	ISO 306	103
Mechanical Properties	**Unit**	**Test Method**	**Metric**
Tensile stress at break	MPa	ISO 527	32
Elongation at break	%	ISO 527	17
Young's Modulus	GPa	ISO 527	3.1
Flexural Modulus	GPa	ISO 178	3.6
Charpy Impact Strength	kJ/m²	ISO179-1	2.1
Rockwell Hardness	HRM	ISO2039-2	89
Barrier Properties (cast film)	**Unit**	**Test Method**	**Metric**
Oxygen Transmission Rate	cm³20μm/m².d (20℃,20%RH)	ISO 14663-2 Annex C	0.64
Typical properties: These are not to be construed as specifications.			

Application

1. Packaging materials: This series of products is widely used in packaging of food, medicine, daily chemicals, etc. due to its excellent gas barrier properties and transparency.
2. Pipe materials: This series of products has excellent processing, molding, oxygen barrier and other properties, and can be used for oxygen barrier floor heating pipes, etc., playing a role in creating a comfortable living space.
3. Automobile fuel tanks: This series of products has excellent oil resistance, solvent barrier and other properties, and is an ideal material for manufacturing automobile fuel tanks and other containers.

Package

Packages:20 kg/bag,25 kg/bag, 800kg/bag.

Storage

Store in accordance with local regulations on safe storage of chemical products.

Store in a dry, well-ventilated place. Stay away from hot objects, sparks, and other sources of ignition.