



Ethylene Vinyl Acetate Copolymers (EVA)

FORMOSA PLASTICS CORPORATION

-- Injection & Foaming Grade Data Sheets

Grade Name			Injection · Foaming						Powder coating
			7340M	7440M	7240M	7350M	7360M	7470M	7920M
Properties	Unit	Method							
Melt Index MI _{2.16}	g/10min	ASTM D1238	2.5	4.0	1.5	2.5	2.0	4.0	80
Density	g/cm ³	ASTM D1505	0.934	0.934	0.935	0.938	0.941	0.948	0.930
Vinyl Acetate content	%		14	14	15	18	21	26	8
Thermal properties									
Melting point	°C	DSC	90	90	87	84	80	76	96
Brittleness point	°C	ASTM D746	<-70	<-70	<-70	<-70	<-70	<-70	<-70
Softening point	°C	ASTM D1525	70	70	65	60	58	48	70
Mechanical properties									
Tensile strength at yield	Kg/cm ²	ASTM D638	80	60	55	45	40	30	15
Tensile strength at break	Kg/cm ²	ASTM D638	140	150	150	150	180	140	80
Elongation at break	%	ASTM D638	700	700	700	800	800	800	600
Flexural modulus	Kg/cm ²	ASTM D790	230	230	210	150	150	70	300
Hardness	Shore A	ASTM D2240	96	94	92	88	86	82	96
Hardness	Shore D	ASTM D2240	45	43	42	38	36	32	45
Mechanical properties of film									
Tensile strength at yield	Kg/cm ²	ASTM D882B MD/TD							
Tensile strength at break	Kg/cm ²	ASTM D882B MD/TD							
Elongation at break	%	ASTM D882B MD/TD							
Secant modulus 1%	Kg/cm ²	ASTM D882B MD/TD							
Tear resistance (elmdorf)	N/mm	ASTM D1922 MD/TD							
Dart drop test	g	ASTM D1709							
Coefficient of friction(COF)		ASTM D1894							
Optical qualities									
Haze	%	ASTM D1003							
Gloss 45°	%	ASTM D2457							
Recommended film thickness	μ								
Additives									
Slip agent	Level								
Anti blocking agent	Level								
Characteristics			High elasticity High flexible	High elasticity High flexible High-flowability	High elasticity Good-mechanical	Good chemical resistance Excellent- elasticity High flexible	Excellent- elasticity High flexible	Excellent- elasticity High flexible Good toughness High optical	Excellent- processability High elasticity toughness
Application			Flexible items X-linked Foam	Flexible items X-linked Foam	Flexible items X-linked Foam - Sandal , Slipper	X-linked Foam- shoes, Mid-sole Gaskets PEVA sheeting	X-linked Foam- shoes , Mid-sole Gaskets Protecting film	X-linked Foam- shoes , Gaskets Blend polymer Build materials Wallpaper	Powder coating for non-woven & fabrics Hot melt

PS : 1. Processing condition : Injection · Foaming temperature =150 - 180 °C

2. Data shown are average values and should not be examined for specifications.