

SUNTEC™-EVA

Ethylen vinyl acetate copolymer Resin

AsahiKASEI
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SUNTEC™-EVA are ethylene-vinyl acetate copolymer resins manufactured by the high-pressure polymerization method, with rubber elasticity, excellent low-temperature characteristics, and weather resistance. By changing the vinyl acetate content, mechanical properties, flexibility, adhesiveness, heat selability, etc. can be controlled in a wide range.

SUNTEC™-EVA can be used for blown or cast monolayer and coextruded films, or blended with other resins. SUNTEC™-EVA resins are the smart choice for low-temperature sealing, flexibility, puncture resistance, food and other packaging required properties. Which means – energy savings, faster packaging speeds, fewer package failures, and less waste.

Typical Properties 1)		Test Method(s)	Units	EF0510	EF0910	EF0925	EF1510	EF1522	EF1522.1	EF1809	EF1914	
Melt Flow Rate (190 °C, 2.16 kg)		ISO 1133-1 : 2011	g/10 min.	1.0	1.0	2.5	1.2	2.2	2.4	0.9	1.4	
Vinyl Acetate Content		ISO 8985 : 1998	%	4.8	9.0	9.0	15	15	15	17.5	18.5	
Density		ISO 1183-2 : 2004	kg/m ³	924	930	930	937	937	937	940	941	
Thickness		—	µm	35	35	35	35	35	35	35	35	
Tensile Stress @ Yield 2)	MD	ISO 527-3 : 1995	MPa	8	7	7	5	5	5	4	4	
	TD		MPa	8	6	7	5	5	5	4	4	
Tensile Stress @ Break 2)	MD		MPa	30	31	30	29	27	29	31	29	
	TD		MPa	27	28	26	27	27	27	34	30	
Tensile Elongation @ Break 2)	MD		MPa	310	310	390	240	240	250	190	210	
	TD		MPa	620	640	650	640	610	630	620	620	
Haze			ISO 14782 : 1999	%	6	3	2	1.4	1.6	1.2	1.1	1.0
20deg Gloss			ASTM D523	%	28	61	75	90	80	96	100	100

- 1) All physical properties were measured on extruded blown film specimens, and which are typical value, not to be construed as specifications.
- 2) Tensile Testing was conducted at a crosshead speed of 500 mm/min.
- 3) Blown film extrusion was conducted at below extrusion condition.
Screw diameter of 50 mm, die diameter of 100 mm, BUR = 2.0, Temperature of 160° C.
- 4) No slip agent is added to all of the above resins.

• Notice

The values in the above table are representative values obtained using the noted test methods. Please use these values as a reference when selecting the most suitable grade for each respective use. For information on appropriate Handling & Storage of each polymeric resin, please refer to the material Safety Data Sheet.