

乙烯—乙酸乙烯酯共聚物

Ethylene Vinyl Acetate (EVA)



产品简介

中国石化乙烯醋酸乙烯酯共聚物是由乙烯和醋酸乙烯酯 (VA) 在引发剂存在下经高压本体聚合的方法, 由自由基聚合而得到的热塑性共聚树脂, 其性能随着乙酸乙烯酯在大分子中所占比例不同, 表现出很大的差异, 并可分别适应多种用途的需要。

Overview

Sinopec EVA is a thermoplastic copolymer manufactured through the free radical polymerization of ethylene and vinyl acetate in the presence of initiating agents using the high-pressure bulk polymerization process. EVA's properties vary dramatically from one product to another depending on the content of vinyl acetate in the macromolecule. EVAs with different properties are used for different purposes.

产品用途

乙烯醋酸乙烯酯共聚物可采用注塑、挤出、吹塑、压延和发泡成型等方法进行加工, 主要应用于包装材料、农用薄膜、注塑制品、电缆材料、泡沫塑料、母料载体、共混增韧材料、阻尼隔音材料等方面, 还可以用于制作热熔粘合剂、地毯背衬、蜡基涂层、鞋底, 中空成型可用于制作可伸缩软管、微灌管及其它软管。

主要产品牌号性能指标典型值 (非保证值) 及用途

Grades, Typical Values (Not Warranted Values) and Applications

Applications

EVA can be processed by many different methods, such as injection molding, extrusion molding, blow molding, calendaring and foaming. It is principally used in the production of packaging material, agricultural film, injection-molded products, cable material, foamed plastics, master batch carriers, blending toughening material and damping soundproof material. It can also be used in the production of hot melt adhesive, carpet backing, wax-based coatings and shoe soles. Through hollow molding, EVA can be used for making expandable hoses, micro-irrigation tubes and other types of flexible hoses.

产品包装及贮运要求

产品采用牛皮纸包装袋包装, 净重25Kg/袋。

产品应存放在通风、干燥的仓库内, 远离火源, 防止阳光直接照射, 不得露天堆放。产品运输时不得在阳光下曝晒或雨淋, 不得与沙土、碎金属、煤炭、玻璃等混合装运, 更不可与有毒物质、腐蚀性和易燃物品混装。

Package, Storage and Transportation

The resin is packaged in brown paper bags and the net weight is 25Kg/bag.

The resin should be stored in a drafty, dry warehouse and away from fire and direct sunlight. It should not be piled up in the open air. During transportation, the material should not be exposed to strong sunlight or rain and should not be transported together with sand, soil, scrap metal, coal or glass. Transportation together with toxic, corrosive and flammable substance is strictly prohibited.

主要产品牌号性能指标典型值（非保证值）

Grades and Typical Values (Not Warranted Values)

产品牌号 Grades		V4110F	V4110J	V5110J	V5110K	V6110M
熔体流动速率 MFR	g/10min	0.8	2.5	2.7	4.0	6.0
VA含量 VA Content	%	14.0	14.0	18.0	23.0	26.5
熔融温度 Melt Temperature	°C	93	93	83	80	77
维卡软化温度 Vicat softening Point	°C	72	66	60	46	42
雾度 Haze	%≤	5	—	—	—	—
拉伸强度 Tensile Strength	MPa≥	20	—	—	10.5	11.5
断裂伸长率 Elongation at break	%≥	500	—	—	650	700
主要用途 Applications		通用膜、大棚膜 General Purpose Film, Greenhouse Film	发泡、软管 Foaming, Flexible Hose	注塑、发泡 Injection Molding, Foaming	发泡 Foaming	电缆屏蔽料 Cable screening
生产企业 Manufacturer		扬巴 BASF-YPC	扬巴 BASF-YPC	扬巴 BASF-YPC	扬巴 BASF-YPC	扬巴 BASF-YPC

产品牌号 Grades		14F1	9F1	24J6	18J3	18C4
熔体流动速率 MFR	g/10min	0.8	1.0	5.0	4.0	4.0
VA含量 VA Content	%	14	8.5	24	18	18
熔融温度 Melt Temperature	°C	95	100	报告	报告	报告
维卡软化温度 Vicat softening Point	°C	—	77	—	—	—
雾度 Haze	%≤	8	13	—	—	—
拉伸强度 Tensile Strength	MPa≥	12	—	—	—	12
断裂伸长率 Elongation at break	%≥	500	—	—	—	500
主要用途 Applications		通用膜、大棚膜	大棚膜	发泡	注塑、发泡	电缆屏蔽料
生产企业 Manufacturer		燕山 Yanshan	燕山 Yanshan	燕山 Yanshan	燕山 Yanshan	燕山 Yanshan