

ABS/SAN

丙烯腈-丁二烯-苯乙烯共聚物、丙烯腈-苯乙烯共聚物

产品简介 Introduction

ABS 树脂是丙烯腈、丁二烯、苯乙烯三种单体的三元共聚物，兼有三种单体共同性能的米白色热塑性树脂，因此ABS 具有刚性好、冲击强度高、耐热、耐低温、耐化学药品性，机械强度和电气性能优良的特性。ABS 树脂易于加工，加工尺寸稳定和表面光泽度好；同时易于涂装、着色，还可以进行喷涂、电镀、焊接和粘接等二次加工。

ABS resin is a terpolymer of three monomers of acrylonitrile, butadiene and styrene, and has the common properties of the three components. Therefore, ABS has good rigidity, high impact strength, good heat resistance, good resistance for low temperature, good chemical resistance, excellent mechanical strength and electrical properties. It is easy for processing, as it has good processing dimensional stability and surface gloss. It is also easy to paint and color, and can also be sprayed, secondary processing such as electroplating, welding and bonding.

ABS 树脂的最大应用领域是家用电器、办公设备、交通运输、生活用品、玩具和建材。此外也被应用于包装、家具、体育和娱乐用品、机械和仪表工业中。

The largest application areas of ABS resin are household appliances, office equipment, transportation, daily necessities, toys and building materials. It is also used in packaging, furniture, sports and entertainment, machinery and instrumentation industries.

装置情况 Plant

浙石化采用乳液法技术建设ABS 装置及其相应配套设施，产品以高档通用料为主。项目总规划产能160 万吨/ 年，分两期建设，一期装置设计产能40 万吨/ 年。

Zhejiang Petrochemical adopts the emulsion method technology to build the ABS plant and its corresponding supporting facilities, and the products are mainly high-grade general materials. The total planned production capacity of the project is 1.6 million tons/year, which will be constructed in two phases, and the designed capacity of the first phase is 400,000 tons/year.

产品分类 Product Categories

规格 Specification	通用级 General Grade		板材级 Plate Grade	阻燃级 Flame Retardant Grade
产品 Production	ZA0210	Za0300	ZA1300	ZA323A
特性 Features	高刚性、高光泽 High stiffness, High gloss	高冲击强度 High impact resistance	高冲击强度、挤出级 High impact resistance, Extrusion molding	阻燃性 Flame retardance
主要用途 Application	家电、电子产品 Home appliances, Electronic and electrical products	安全帽、鞋跟、箱包等 Helmet, heels, bags etc.	管材、冰箱部件等 Pipes, refrigerator parts, etc.	控制盒、蓄电池、插座等 Control box, battery, socket, etc.

规格 Specification	通用级 General Grade	
产品 Production	ZS0250	ZS0350
特性 Features	一般用途，本色 Injection grade,Natural color	高刚性、高耐化性 High stiffness,High chemical resistance
主要用途 Application	日用品、化妆品等 Daily necessities, cosmetics, etc.	打火机、家电部件等 Lighters, home appliance parts, etc.

ABS/SAN物性 Physical property

物性类别 Physical property category	测试方法 Test method	测试条件 Test conditions	单位 unit	通用级ABS General Grade		板材级ABS Plate Grade	阻燃级ABS Flame Retardant Grade	通用级 SAN General Grade	
				ZA0210	ZA0300	ZA1300	ZA323A	ZS0250	ZS0350
拉伸强度 Tensile Strength	GB/T1040.2	50 mm/min	Mpa	47	42	40	38	60	70
弯曲强度 Flexural Strength	GB/T9341	2mm/min	MPa	76	63	61	58	106	124
弯曲模量 Flexural Strength	GB/T9341	2mm/min	MPa	2700	2000	1800	2000	3000	3000
Izod冲击强度 Izod Impact	GB/T1043.1	4mm, 23℃	KJ/m	20	35	35	20	-	-
微卡软化点 Vicat Softening Point	GB/T1633B50	4mm	℃	97	97	97	96	104	108
燃烧性 Flammability	UL94	-	-	HB	HB	HB	V-0	HB	HB
熔融指数 Melt Flow Rate	GB/T3682.1	220℃, 10kg	g/10min	18-24	5-8	7-10	38-48	28-36	8-12
比重 Specific Gravity	D792	-	g/cm	1.04	1.03	1.04	1.19	1.06	1.06
成型收缩率 Molding Shrinkage	D955		%	0.4~0.7	0.4~0.7		0.3~0.6		
产品特性 Features				高刚性、高光泽 High stiffness, High gloss	高冲击强度 High impact resistance	高冲击强度、挤出级 High impact resistance, Extrusion molding	阻燃性 Flame retardance	一般用途，本色 Injection grade,Natural color	高刚性、高耐化性 High stiffness,High chemical resistance

注：以上数据是在特定条件下测出的代表值并非保证值，保证值为我司备案企业标准。
The above data are representative values measured under specific conditions, not guaranteed values.
The guaranteed values are the standards of our company for record.

使用说明 Instructions

注塑工艺参考 Parameters For Reference		单位 Unit	通用级ABS General Grade		板材级ABS Plate Grade	阻燃级ABS Flame Retardant Grade	通用级 SAN General Grade	
			ZA0210	Za0300	ZA1300	ZA323A	ZS0250	ZS0350
干燥温度 Drying Temperature		℃	80	80	70-80	70-80	80	80
干燥时间 Drying Time		hrs	2-4	2-4	2-4	2-4	2-4	2-4
最低水分含量 Minimum Moisture Content		%	0.01	0.01	0.01	0.01	0.01	0.01
熔融温度 Melting Temperature		℃	210-240	210-240	200-230	200-230	210-230	210-230
料筒温度 Barrel Temperature	后段 Back Section	℃	180-200	180-200		170-190	200-220	190-210
	中段 Middle Section	℃	190-210	190-220		180-200	210-230	210-230
	前段 Front Section	℃	200-210	200-220		190-200	210-230	210-230
喷嘴温度 Nozzle Temperature		℃	200-220	200-230		200-230	210-230	210-230
模具温度 Mold Temperature		℃	40-70	40-70		40-60	50-70	50-70
背压 Back Pressure		bar	10-30	10-30		5-10	5-15	5-15
螺杆转速 Screw Speed		rpm	30-60	30-60		30-60	30-60	30-60

说明：instruction:
(1) 上述提到的背压和螺杆转速只是作为一般指导方针；
The back pressure and screw speed mentioned above are only general guidelines;
(2) 在特定情况下，如低速注塑尺寸成型、薄壁成型和气体辅助成型，这些数据可能不适用或需要调整后使用；
In certain cases, such as low-speed injection molding, thin-wall molding and gas-assisted molding, these data may not be applicable or need to be adjusted for use;
(3) 为了防止在关机之前物料在模头内降解，或物料流出挤出机，建议初始设置温度稍低些。
In order to prevent the material from degrading in the die before shutdown, or the material flowing out of the extrusion stage, it is recommended that the initial setting temperature be slightly lower.

