



TECHNICAL DATA SHEET

1. Product Name	ANYPOL EPS Resin
2. Grade	SE-2000
3. Description	SE-2000 is one of flame retardant expandable polystyrene grade containing the pentane as a blowing agent and the cycloaliphatic brominated hydrocarbon as a FR additive.
4. Application	Insulation board, Refrigeration components and medium part of packing components etc.
5. Certificate	Z-PA-III 2.2943 of the Deutsches Institut Fur Bautechnik, UL 94HF and ICC-ES(NES, ICBO) of U.S.
6. Packing Type	* For Overseas Market - 1,200kg octabin box with inside gas barrier liner - 800kg/750kg flexible container bag with inside gas barrier liner * For Domestic Market - 600kg flexible container bag with inside gas barrier liner
7. Processing Conditions	All processing conditions might be changeable according to a kind of equipments, and an aging time of materials. Main processing conditions are generally as follows. * Prefoaming In general, the steam should be saturated at a temperature of 100~110℃. To get densities below 13kg/m³, it is prefer to pre-expand twice. * Aging Even if it is different to depend on the density, the pre-expanded beads have generally to be aged 8 to 24hr(in case of 15kg/m³ of density). In case of pre-expansion twice, the expanded beads have to be aged 2 to 4hr after 1st pre-expansion * Molding The molding machine should be fed with saturated steam by pressure 2~3kg/cm², and the steam into molding machine has to be handled by a steaming pressure and/or a steaming time, compared with the aging time of expanded beads, the density of products and the size of molding machine. * Cutting The cutting wire has to be used by a nichrome wire or an alloy of nichrome with 0.012~0.02inch of thickness. The temperature of cutting wires should generally be about 200~300℃.

8. Properties	* Raw Materials						
	Item	Unit	Value		Test Method		
	Bulk Density	g/cm³	0.62		KS M 3035		
	Pentane Content	%	5.5~6.5		Gas Chrom.		
	Monomer Content	%	< 0.30		Gas Chrom.		
	Moisture Content	%	< 0.5		Karl Fisher		
	Bead Size Distribution	mm	0.90 ~1.18		KS A 5101		
	* End Product						
	Density(kg/m³)		15	20	25	30	Test Method
	Compressive Strength(10%) (kg/cm²)		0.8	1.2	1.7	2	KSM 3808
	Flexural Strength (kg/cm²)		1.8	2.8	3.4	4.1	KSM 3808
	Thermal Conductivity (w/mk)		0.038	0.035	0.033	0.032	KSM 9016
9. Storage	SE-2000 grade should be stored in a cool place with temperature below 20℃ and well ventilation and should not be exposed to direct sunlight, heat, flame, rain, snow or frost. Once the package is opened, the EPS should be used as soon as possible, not be left with opened for a long time.						
10. Caution	SE-2000 is not classified as a dangerous materials. However, all equipments should be properly earthed to avoid a generating dust, and the processor should use a proper ventilation to release pentane during processing which might form a flammable/explosive vapor – air mixture, especially in silo and warehouse.						
11. Recycling	The wastes of SE-2000 products can be used properly to mix with virgin materials after grinding, cleaning and be recycled to PS Resin after reduce a volume of foamed wastes through extruder.						