

Technical sheet for products:

ALPHAPOR– expanded polystyrene (EPS).
TU 2214-019-53505711-2010

Product description:

ALPHAPOR is a product of suspension polymerization of styrene in the presence of a blowing agent. Foaming suspension polystyrene is produced in the form of spherical particles, the surface of which is treated with various substances that prevent the accumulation of electrostatic charges during transportation and improve the manufacturability of the polymer during processing. **ALPHAPOR** in appearance is a translucent spherical particles of milky white color.

Application:

ALPHAPOR is designed for thermoforming of heat and sound insulation materials in the form of polystyrene blocks, various types of packaging, as well as for the manufacture of other technical products. Type SE (Self-Extinguishing) contains flame retardants, HBCD free.

Basic physical and chemical characteristics:

Technical Parameters	SE Self-Extinguishing grade				
	501	401	301	201	MIX
Granule size [mm]	0,45-0,7	0,7-1,0	0,96-1,6	1,4-4,0	0,45-4,0
The mass fraction of the main particles fractions,%, not less	99,0	98,0	98,0	99,0	90,0
The typical range of density [kg/m3]	16-40	10-25	8-20	8-16	14-20
Pentane content [%]	5,0 – 7,0	5,0 – 7,0	5,0 – 7,0	5,0-7,0	5,0 – 7,0
Maximum water content [%]	1,0	1,0	1,0	1,0	1,0
Maximal residual monomer content [%]	0,1	0,1	0,1	0,1	0,1
Flammability (no more than 30 kg/m3)	B1 (DIN 4102)	B1 (DIN 4102)	B1 (DIN 4102)	B1 (DIN 4102)	B1 (DIN 4102)
The average of molecular weight	150.000- 250.000	150.000- 250.000	150.000- 250.000	150.000- 250.000	150.000- 250.000

Packaging: Thermoplastic bags weighing 25±0,5 kg. (40 bags on a pallet 1100*1300*1430); big bags weighing 840±8,4 kg. (Optionally can be installed on a pallet size 1000*1200 mm according to GOST 9078).

Storage: Storage of polystyrene foaming near the source of open fire, causing heating of the ambient air and the polymer, can lead to the ignition of vapor blowing agent (pentane) and, accordingly, the polymer. For ensuring fire safety all rooms where processing, storage of polystyrene foaming and expanded polystyrene shall be provided with General exchange supply and exhaust ventilation which shall provide 5-6-fold exchange of air, and a zone of allocation of volatile products (a zone of processing)-local exhaust ventilation with 8 – fold exchange of air is made.

Transport: the Vehicle must be equipped in accordance with the requirements of ADR (Annex B, part 8). The driver must have a certificate for the carriage of dangerous goods – 9 hazard class.