

Technical Data Sheet

EPS 522FC

EXPANDABLE POLYSTYRENE (EPS)

522FC is one of the TPC Performance expandable polystyrene products range. It is a free-flowing expandable polystyrene grade, consisting of spherical polystyrene beads containing pentane as the expansion agent. Expandable polystyrene (EPS) is normally expanded to achieve the low densities required for final step expansion. The typical density of this grade is around 36 kg/m³, but other densities are possible depending on applications and equipments. 522FC is especially fast cycling and water proof formulated to achieve low density foam without lumps during pre-expansion. This grade is not fire retardant, so it is not suitable for building applications.

Applications:

High Density Block, Shape Molding. Because of its small bead size, 522FC is also used for very thin wall shape molding with wall thickness less than 6 mm. It is suitable for high quality products demanding improved surface finish and high strength. Properly processed EPS foam packaging made from 522FC provides good mould filling properties and high mechanical strength.

PROPERTY	UNIT	TEST METHOD	TYPICAL VALUE
BEAD SIZE 0.28-0.63	%WT	SUNPOR 7.2.5	90
K-VALUE	--	SUNPOR 7.2.4	55
PANTANE CONTENT	%WT	SUNPOR 7.2.2	5.2
EXPANDED DENSITY	KG/M3	SUNPOR 7.2.6	36
MAX RESIDUAL MONOMER	PPM	SUNPOR 7.2.1	1000