



LDPE	LLDPE	MDPE	HDPE	PP	PVC	GPPS	HIPS	EPS	PET	ABS	SBR	PBR	PC	E.P.
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## EPS EXPANDABLE POLYSTYRENE

### General Informations:

Standard expandable polystyrene EPS is manufactured by the suspension polymerization method . The polymerization is generally carried out in a batch process. Various grades of EPS supplied in free-flowing beads contain pentane (CFC free ) as a foaming agent . It is used for fast cycle low destiny block mold application with good surface finish.

### Available Grades:

TYPES	HIGH STRENGTH (HS)	FAST CYCLE (FC)	WATER PROOF (WP)	SPECIAL EXTRUSION (EX)
GRADE	121,221,321	323,422,522	326,426,526	600

### Applications:

Grades of each type differ only in bead size not in composition.

Type&Grade	Bead size (mm)	Typical end product density (kg/m3)	Typical applications
TPC - 121 HS	1.8 - 2.5	13 – 25	Low density blocks
TPC - 221 HS	1.0 – 1.8	14 – 30	Low – Medium density blocks
TPC - 321 HS	0.7 – 1.0	18 – 30	Shape molding with wall thickness > 10 mm, and medium – high density blocks
TPC - 323 FC	0.7 – 1.0	18 – 30	Faster cycling shape molding with wall thickness >10mm.&medium-high density blocks
TPC - 422 FC	0.5 – 0.7	20 – 35	Faster cycling shape molding of 6-10mm wall thickness suitable for high quality products demanding improved surface finish and high strength
TPC - 522 FC	0.3 – 0.5	22 – 50	Very thin wall shape molding with wall thickness <6mm suitable for high quality products demanding improved surface finish and high strength
TPC - 600 EX	UP TO 0.3	----	Special type for extrusion
TPC - 326 WP	0.7 – 1.0	18 – 30	Low water absorption, longer cycling shape molding with wall thickness >10 mm
TPC - 426 WP	0.5 – 0.7	20 – 35	Very low water absorption, cycling shape molding of 6-10 mm wall thickness
TPC - 526 WP	0.3 – 0.5	22 – 50	Very thin-wall water proof shape molding products with wall thickness <6 mm such as drinking cups

Lower densities can be achieved by double pre expansion.

