

Overview of material properties

	EPS expanded polystyrene	PS/PE expanded copolymer polystyrene / polyethylene	PS/PMS expanded copolymer polystyrene / polymethyl styrene	PPE/PS expanded copolymer polyphenylene ether / polystyrene tara-foam®X	EPP expanded polypropylene	P-EPP expanded, porous polypropylene	xEPE expanded, crosslinked polyethylene tara-foam®E
Blow agent	pentane	pentane	pentane	pentane	air	air	air
Part density in g/l	15–200	16–65	20–25	140–200	20–140	30–55	20–100
Heat resistance in °C	+80	+85	+90	+90	+110	+110	+90
Flame retardancy	possible	possible	yes	yes	possible	no	no
Recovery	very low	good	very low	very low	very good	very good	very good
Creep properties	very good	good	good	very good	good	good	enough
Antistatic	possible	possible	no	no	possible	no	possible
Water absorption in vol. %	~1,0–1,5	—	—	—	~1,0–1,5	~1,0–1,5	~0,1
Heat conductivity in W/m*K	0,029–0,038	0,037–0,040	0,029–0,036	0,038–0,041	0,035–0,047	—	0,036–0,045
Thermal expansion in 10 ⁻⁶ /K	50–70	50–70	–	50	100	100	300
Colours, standard	white, black	white, black	white	grey	white, black, red, grey, blue, green, yellow, orange, terracotta, pink	grey	white
Colours, dyed	light pink, light blue, light green, light grey	none	none	none	none	none	none