

Data Sheets


Our Expanded Polystyrene

Property	Test Method	Unit	TK 15	TK 20	TK 25	TK 30	TK 35
Minimum Apparent Density	DIN 53420	KG M/3	14-16	20-22	24-26	30-32	32-35
Max. Permissible Compressive Stress at <2% Compression	DIN 53421	KPA	12-25	20.35	28-50	36-62	44-74
Compressive Stress at 10% Compression (1)	DIN 53421	KPA	65-110	100-160	140-210	180-255	225-305
Flexural Strength (1)	DIN 53423	KPA	160-210	240-300	325-400	410-490	490-590
Tensile Strength (1)	DIN 18164	KPA	150-230	225-325	260-415	375-510	450-600
Shear Strength (1)	DIN 53427	KPA	90-120	120-150	150-190	190-220	220-250
Average Coefficient Of Linear Expansion Between 20° and 80°C	DIN 53752 Based on DIN 53424 Based on DIN 18164	K-1	0.6 X 10-4	0.6X 10-4	0.6 X 10-4	0.6 X 10-4	0.6 X 10-4
Dimensional Stability Under Heat. Short Term		°C	95	95	95	95	95
Dimensional Stability (2) Under Heat. Long Term							
Under 05 KPA Load		°C	85	85	85	135	85
Under 20 KPA Load		°C	75-80	80-85	80-85	80-85	80-85
Continuous Service Temperature In Air (3)		°C	-180 +95	-180 +95	-180+95	-180+95	-180+95
Thermal Conductivity With Average Specimen Temp 10°C	DIN 52612	WM -1K -1	0.032 - .036	0.03143.035	0030-0.034	00294033	0.029-0.033
Approximate Water Vapour Permeability	DIN 53429	GD -1M -2**	40	35	26	20	16
Water Vapour Diffusion Resistance Factor (4)	DIN 4108		20-50	30-70	40-100	40-100	40-100
Water Absorption When Kept Under water after 7 Days	DIN 53434	VOL %	0.5 -1.5	0.5 - 1.5	0.5 - 1.5	0.5- 1.5	0.5- 1.5
Flammability	DIN 4102	MATERIAL CLASS	81 Flame Resistance	81 Flame Resistance	81 Flame Resistance	81 Flame Resistance	81 Flame Resistance