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Steinbach AG
Industrial Components

Technical Data Sheet S 3507a/…-SW…

expanded
polypropylene-foam

S 3507a/…-SW… is a closed-cell expanded polypropylene-foam (EPP), colour black.

Technical Data					
Type (S 3507a/…)		**10-SW45**	**15-SW20 15-SW30 15-SW45**		
Thickness (approximate)	[mm]	10.0 ± 2.0	15.0 ± 2.0		
Density	[kg/m³]	45	20	30	45
Thermal stability	[°C]	80			
Cold resilience	[°C]	- 40			
Heat conductivity DIN 52 612	[W/mK]	0.041	0.039	n/a	0.041
Compression resistance ISO 3386 (at 40 % compression)	[kPa]	125	80	105	125
Tensile strength ISO 1798	[kPa]	560	270	450	560
Elongation at break ISO 1798	[%]	19	21	20	19
Compressive stress ISO 844 (5 mm/min at 10 % compression)	[kPa]	180	70	n/n	180
Water absorption (1 day) DIN 53428	[Vol. %]	0.5 - 1.5			
Combustibility FMVSS 302 (corresponds to DIN 75200 and ISO 3795)	[mm/min]	burn rate < 100			

Technical Data				
Type (S 3507a/…)		**20-SW45**	**30-SW20 30-SW45**	
Thickness (approximate)	[mm]	20.0 ± 2.0	30.0 ± 2.0	
Density	[kg/m³]	45	20	45
Thermal stability	[°C]	80		
Cold resilience	[°C]	- 40		
Heat conductivity DIN 52 612	[W/mK]	0.041	0.039	0.041
Compression resistance ISO 3386 (at 40 % compression)	[kPa]	125	80	125
Tensile strength ISO 1798	[kPa]	560	270	560
Elongation at break ISO 1798	[%]	19	21	19
Compressive stress ISO 844 (5 mm/min at 10 % compression)	[kPa]	180	70	180
Water absorption (1 day) DIN 53428	[Vol. %]	0.5 - 1.5		
Combustibility FMVSS 302 (corresponds to DIN 75200 and ISO 3795)	[mm/min]	burn rate < 100		

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Technical Data Sheet **S 3507a/…-SW…**

Technical Data							
Type (S 3507a/…)		**40-SW30 40-SW45**		**45-SW45**	**50-SW30 50-SW45**	
Thickness (approximate)	[mm]	40.0 ± 2.0		45.0 ± 2.0	50.0 ± 2.0	
Density	[kg/m³]	30	45	45	30	45
Thermal stability	[°C]	80				
Cold resilience	[°C]	- 40				
Heat conductivity DIN 52 612	[W/mK]	n/a	0.041	0.041	n/a	0.041
Compression resistance ISO 3386 (at 40 % compression)	[kPa]	105	125	125	105	125
Tensile strength ISO 1798	[kPa]	450	560	560	450	560
Elongation at break ISO 1798	[%]	20	19	19	20	19
Compressive stress ISO 844 (5 mm/min at 10 % compression)	[kPa]	n/n	180	180	n/n	180
Water absorption (1 day) DIN 53428	[Vol. %]	0.5 - 1.5				
Combustibility FMVSS 302 (corresponds to DIN 75200 and ISO 3795)	[mm/min]	burn rate < 100				

Technical Data			
Type (S 3507a/…)		**60-SW45**	**80-SW30**
Thickness (approximate)	[mm]	60.0 ± 2.0	80.0 ± 2.0
Density	[kg/m³]	45	30
Thermal stability	[°C]	80	
Cold resilience	[°C]	- 40	
Heat conductivity DIN 52 612	[W/mK]	0.041	n/a
Compression resistance ISO 3386 (at 40 % compression)	[kPa]	125	105
Tensile strength ISO 1798	[kPa]	560	450
Elongation at break ISO 1798	[%]	19	20
Compressive stress ISO 844 (5 mm/min at 10 % compression)	[kPa]	180	n/n
Water absorption (1 day) DIN 53428	[Vol. %]	0.5 - 1.5	
Combustibility FMVSS 302 (corresponds to DIN 75200 and ISO 3795)	[mm/min]	burn rate < 100	

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Technical Data Sheet **S 3507a/…-SW…**

Technical Data				
Type (S 3507a/…)		**120-SW60**	**150-SW45**	**150-SW80**
Thickness (approximate)	[mm]	120.0 ± 2.0	150.0 ± 2.0	150.0 ± 2.0
Density	[kg/m³]	60	45	80
Thermal stability	[°C]	80		
Cold resilience	[°C]	- 40		
Heat conductivity DIN 52 612	[W/mK]	0.039	0.041	0.044
Compression resistance ISO 3386 (at 40 % compression)	[kPa]	150	125	170
Tensile strength ISO 1798	[kPa]	760	560	950
Elongation at break ISO 1798	[%]	17	19	15
Compressive stress ISO 844 (5 mm/min at 10 % compression)	[kPa]	n/n	180	n/n
Water absorption (1 day) DIN 53428	[Vol. %]	0.5 - 1.5		
Combustibility FMVSS 302 (corresponds to DIN 75200 and ISO 3795)	[mm/min]	burn rate < 100		

Main function: Heat insulation

Applications: Mechanical engineering, plant constructions, vehicle cabs, impact protection

Processing: Mechanical attachment
Adhesive with fluid glue
Processing temperature: 18 - 25 °C

Storage conditions: Dry at temperatures between 18 - 25 °C
Max storage time: unlimited

Delivery forms: Standard boards 1,200 x 1,800 mm untrimmed,
600 x 1,000 mm untrimmed (S 3507a/150-SW80),
other sizes and cut-to-size pieces, as well as other densities and colours upon request.