

# Technical Data Sheet

# S 3500a



polyethylene-foam

S 3500a is a closed-cell polyethylene-foam (PE-foam).

Technical Data				
Type (S 3500a/...)		5	10	15
Thickness (approximate)	[mm]	5.0	10.0	15.0
Weight (approximate)	[kg/m <sup>2</sup> ]	0.16 ± 0.05	0.33	0.49 ± 0.05
Thermal stability	[°C]	90 (dry)		
Cold resilience	[°C]	- 50		
Heat conductivity DIN 52 616	[W/mK]	0.034		
Hardness shore A		10		
Compression resistance ISO 844 at 25 % compression	[kPa]	54 - 79		
Compression set ISO 1856 22 h / 23°C / 25 %	[%]	17 5	0.5 h after reduction in pressure 24 h after reduction in pressure	
Elongation at break ISO 1798	[%]	127		
Tensile strength ISO 1798	[kPa]	201		
Absorption of water (7 days)	[%]	< 1		
Combustibility FMVSS 302	[mm/min]	burn rate < 100		
Burning behaviour DIN 4102-1		B2		
Burning behaviour UL 94		HBF		
Burning behaviour EN 13501-1		E		

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Technical Data				
Type (S 3500a/...)		20	25	30
Thickness (approximate)	[mm]	20.0	25.0	30.0
Weight (approximate)	[kg/m <sup>2</sup> ]	0.66	0.82 ± 0.05	0.99
Thermal stability	[°C]	90 (dry)		
Cold resilience	[°C]	- 50		
Heat conductivity DIN 52 616	[W/mK]	0.034		
Hardness shore A		10		
Compression resistance ISO 844 at 25 % compression	[kPa]	54 - 79		
Compression set ISO 1856 22 h / 23°C / 25 %	[%]	17 5	0.5 h after reduction in pressure 24 h after reduction in pressure	
Elongation at break ISO 1798	[%]	127		
Tensile strength ISO 1798	[kPa]	201		
Absorption of water (7 days)	[%]	< 1		
Combustibility FMVSS 302	[mm/min]	burn rate < 100		
Burning behaviour DIN 4102-1		B2		
Burning behaviour UL 94		HBF		
Burning behaviour EN 13501-1		E		

Technical Data				
Type (S 3500a/...)		35	40	50
Thickness (approximate)	[mm]	35.0	40.0	50.0
Weight (approximate)	[kg/m <sup>2</sup> ]	1.15 ± 0.05	1.32	1.65
Thermal stability	[°C]	90 (dry)		
Cold resilience	[°C]	- 50		
Heat conductivity DIN 52 616	[W/mK]	0.034		
Hardness shore A		10		
Compression resistance ISO 844 at 25 % compression	[kPa]	54 - 79		
Compression set ISO 1856 22 h / 23°C / 25 %	[%]	17 5	0.5 h after reduction in pressure 24 h after reduction in pressure	
Elongation at break ISO 1798	[%]	127		
Tensile strength ISO 1798	[kPa]	201		
Absorption of water (7 days)	[%]	< 1		
Combustibility FMVSS 302	[mm/min]	burn rate < 100		
Burning behaviour DIN 4102-1		B2		
Burning behaviour UL 94		HBF		
Burning behaviour EN 13501-1		E		

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Technical Data			
Type (S 3500a/...)		60	80
Thickness (approximate)	[mm]	60.0	80.0
Weight (approximate)	[kg/m <sup>2</sup> ]	1.98	2.64
Thermal stability	[°C]	90 (dry)	
Cold resilience	[°C]	- 50	
Heat conductivity DIN 52 616	[W/mK]	0.034	
Hardness shore A		10	
Compression resistance ISO 844 at 25 % compression	[kPa]	54 - 79	
Compression set ISO 1856 22 h / 23°C / 25 %	[%]	17 5	0.5 h after reduction in pressure 24 h after reduction in pressure
Elongation at break ISO 1798	[%]	127	
Tensile strength ISO 1798	[kPa]	201	
Absorption of water (7 days)	[%]	< 1	
Combustibility FMVSS 302	[mm/min]	burn rate < 100	
Burning behaviour DIN 4102-1		B2	
Burning behaviour UL 94		HBF	
Burning behaviour EN 13501-1		E	

**Main function:** Heat insulation

**Applications:** Mechanical engineering, plant construction, vehicle cabs, impact protection, etc.

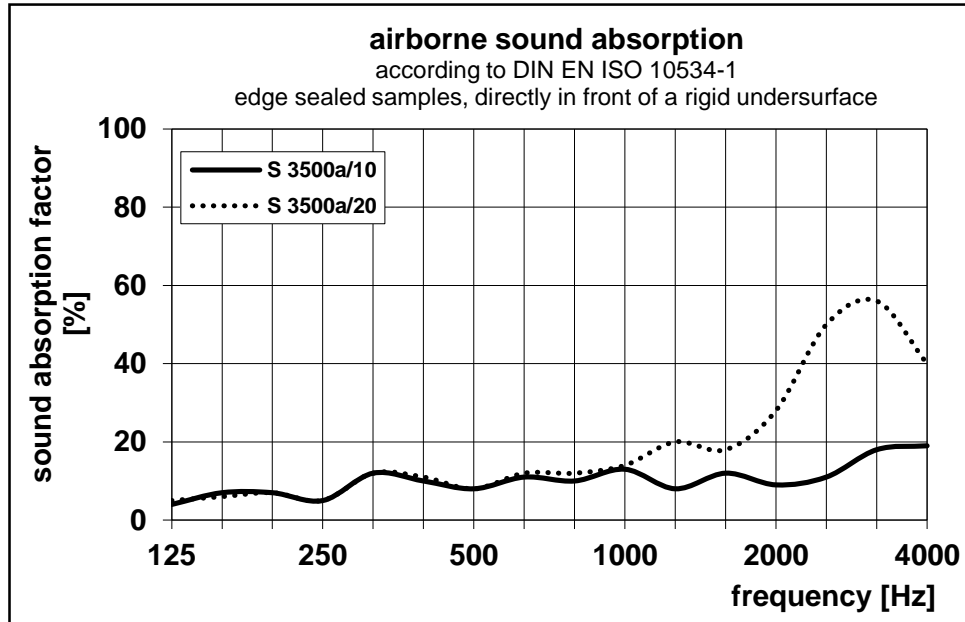
**Processing:** Mechanical attachment  
 Adhesion with liquid adhesive  
 Processing temperature: 18 - 25 °C

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

**Delivery forms:** Standard boards 1,020 x 2,020 mm untrimmed,  
 other sizes and cut-to-size pieces upon request

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The technical data (average values) as well as material information are based on our present knowledge and experiences. They free the user because of the fullness of possible influences by the application of our products, however, not from own tests and attempts in the approach of the real application. Because of the peculiarities of every individual case we can take over no liability for our indications. On request we are available gladly with information.