



# Technical Data Sheet PS HB

**Feedstock:** Polystyrene

## Mechanical properties:

Green density <sup>1</sup>	ISO 1183	≈ 1,1	g/cm <sup>3</sup>
Yield stress	ISO 527	≥ 15	(MPa) N/mm <sup>2</sup>
Expansion at yield stress	ISO 527	> 35-65	%
Impact Charpy +23°C notched	ISO179	13	kJ/m <sup>2</sup>
Impact Charpy -30°C notched	ISO179	-	kJ/m <sup>2</sup>

<sup>1</sup> This value can slightly vary as a result of pigmentation or addition.

## Thermal properties:

Permanent service temperature		60	°C
Vicat Softening Point B/50	ISO 306	≥ 87	°C
Heat Distortion Temperature (A)	ISO 75	≥ 74	°C
Thermal conductivity	ASTM C177	0,17	W/mK

## Electrical properties:

Specific volume resistivity	DIN EN 61340-5-1	> 10 <sup>16</sup>	Ωcm
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## Chemical Resistance (PS in general):

resistant <sup>3</sup> :	acids and bases of lower concentration; fats; oils
not resistant <sup>3</sup> :	oxidants; aliphatic and chlorinated hydrocarbons
dissolves in <sup>3</sup> :	some esters; ketones; aromatic and chlorinated hydrocarbons

<sup>3</sup>Kunststoffe.de

## Inflammability support material:

Flammability rating	UL 94	HB
UL file numbers	E162447; E162447; E102538	
Glow wire test 650 °C	IEC 695-2-1	-

Current state: 03.10.2020

Ein Unternehmen der





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## Designation in technical drawings:

PS06 GE03 ähnl. RAL 7032

PS06 = material and colour (polystyrole in grey)  
 GE 03 = texture and thickness (fine textured, 3mm)

### Farben/Struktur :

Nr.	Farbe	2 mm			3mm			4mm			5mm			6mm			8mm			10mm			12mm		
		GE	GM	GG	GE	GM	GG	GE	GM	GG	GE	GM	GG	GE	GM	GG	GE	GM	GG	GE	GM	GG	GE	GM	GG
PS 04	light grey similar RAL 7035	X			X			X						X			X			X					
PS 05	traffic grey similar RAL 7042				X			X					X												
PS 12	flame red similar RAL 3000				X			X																	
PS 15	sky blue similar RAL 5015				X			X					X												
PS 16	ultramarine blue similar RAL 5002				X			X																	
PS 18	grey white similar RAL 9002	X			X			X			X			X			X								
PS 24	black similar RAL 9004/9005		X			X			X			X			X			X			X				X
PS 31	turquoise blue similar RAL 5018				X			X						X											
PS 34	anthracite grey similar RAL 7016				X			X						X											
PS 35	traffic white similar RAL 9016	X			X			X			X			X			X		X						X
PS 36	brillant blue similar RAL 5007				X			X																	
PS 38	white aluminium similar RAL 9006	X						X						X											

GE = fine textured

GM = middle textured

GG = smooth

## More colours and material thicknesses on request!

### Printability:

Fine textured: printable  
 Middle textured: conditional printable  
 Smooth: printable