



# NPO STEKLOPLASTIC

## TECHNICAL DATASHEET

### SYNLAY

<b>Description</b>	Synlay (HGM) high-tech sheet semi-finished product based on epoxy binder and hollow glass microspheres (HGM) is designed for molding of products from syntactic composites of low-density. Products molding with the use of SYNLAY semi-finished product is carried out by direct extrusion method, as well as by vacuum and autoclave molding methods.				
<b>General Properties</b>	The mass content of the binder in the semi-finished product is 58 to 65%. SYNLAY semi-finished product is supplied in the form of blocks of 200 x 250 mm of various thicknesses (from 2 to 20 mm), Shelf time of semi-finished product: at a temperature not exceeding 20°C up to 100 days; at temperatures below 0°C up to 500 days.				
<b>Physical and mechanical properties (nominal value)</b>					
<b>Property</b>	<b>Unit of measure</b>	<b>PES-0.3</b>	<b>PES -0.4</b>	<b>PES -0.5</b>	<b>PES -0.6</b>
<b>Density</b>	g/cm <sup>3</sup>	0.3 ± 0.01	0.4 ± 0.01	0.5 ± 0.01	0.6 ± 0.01
<b>Content of HGM in semi-finished product</b>	% mass	75	50	35	26
<b>Compression strength</b>	MPa	5-7	10-12	23-25	45-50
<b>Thermal conductivity</b>	W/mK	0.05-0.06	0.07-0.08	0.1-0.12	0.15-0.18
<b>Packaging and storage</b>					
<b>Packaging</b>	Blocks of SYNLAY semi-finished product are packed in corrugated cardboard boxes with dimensions of 300 x 250 x 250 mm and weight of no more than 10 kg. * Package can be changed according to the customer requirements.				
<b>Transportation</b>	In covered vehicles.				
<b>Shell Storage</b>	In a dry place on shelves with a relative humidity of not more than 80%.				
<b>Health Safety Requirements</b>	According to SDS				
<b>Fire safety</b>	Hardly combustible				

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