

IROPLAST[®]SB/Economy

Technical Data Sheet

Brief characteristics

Three-layer sheet (sandwich sheet) made of high impact polystyrene based on styrene butadiene in the outer layers and mixed multi-coloured recycled polystyrene in the core, which will be overdyed homogeneous black.

IROPLAST®SB/Economy has slightly lower mechanical properties compared to IROPLAST®SB.

Mechanical properties

Yield strength Elongation at yield Tensile strength at break Elongation at break Modulus in flexure Flexural stress at conventional deflection	DIN 53455 DIN 53455 DIN 53455 DIN 53455 DIN 53457-B4 DIN 53452	N/mm² % N/mm² % N/mm² N/mm²	18 2 18 35 1500 30
Impact strength at 23°C Impact strength at -30°C Impact strength notched at 23°C Impact strength notched at -30°C Ball indentation hardness (H 358/30)	DIN 53453 DIN 53453 DIN 53453 DIN 53453 DIN 53456	kJ/m² kJ/m² kJ/m² kJ/m² N/mm²	>40 20 6 5
Thermal properties			
Vicat softening point VST B 50 ISO/R75 process A ISO/R75 process B Continuous working temperature Thermal coefficient of linear expansion Thermal conductivity Specific heat	DIN 53460 DIN 53461 DIN 53461 DIN 53752 DIN 52612	°C °C °C 10-5/K W/Km kJ/kgK	65
Electrical properties			
Dielectric constant Dissipation factor Specific volume resistivity Surface resistivity Dielectric strength	DIN 53483 DIN 53483 DIN 53482 DIN 53482 DIN 53481	10-4 Ωcm Ω kV/mm	
Other properties			
Shrinkage Water absorption till saturation Density (standard pigmentation)	DIN 53495 DIN 53479	% % g/cm³	1,06

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The information submitted on this paper is based on our current knowledge and experience. These are typical values and can't be construed as product specifications. The mechanical properties of this technical information were established with extruded 4 mm thick sheets. The information contained herein is believed to be reliable to the best of our knowledge. However, all recommendations are made without guarantee of performance or warranty of freedom from legal responsibility In view of the many factors that may affect processing and application, this data does not relieve processors from the responsibility of carrying out their own tests and experiments, neither do they imply and legally binding assurance of certain properties or of suitability for a specific purpose. It is the responsibility of those to whom we supply our products to ensure that any proprietary rights and existing laws and legislation are observed.

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