APSOplast® PE-HD 01



Engineering plastics technology Technical Data Sheet

Application purpose and characteristics

Weldment in laboratory technology and chemical engineering. Transport, handling and storage technology, DIBt compliant for certified tank and equipment construction. For trays and housings for indoor and outdoor use.

UV-stabilized, weather-resistant, high toughness even at low temperatures, creep strength at 50 years, 20 °C Medium water = 10.0 mpa, anti-adhesive surface, high chemical resistance, excellent welding properties.

Material name, short description	PE-HD
Material name, based on technical standards	Polyethylene high density
Density	.96 g/cm³
Color	black
Compound code	PE-HD 01.005-01

Mechanical properties

00 N/mm² I EN ISO 527
N/mm² I EN ISO 527
; I EN ISO 527
Shore D
N/mm² I EN ISO 2039-1
break I EN ISO 179
00 kJ/m² I EN ISO 179

Thermal attributes

Min. operating temperature	-50 °C
Max. operating temperature long term	0° C
Coefficient of linear thermal expansion 1	1.8 * 10 ⁻⁴ K ⁻¹ ISO 11359-2
Thermal conductivity	0.38 W/(m·K) DIN 52612

Electrical attributes

Dielectric strength 1	47 kV/mm DIN EN 60243-1
Surface resistivity	10 ¹⁴ Ω DIN IEC 60093

Approvals / Compliance

Food & Beverage	EC No. 1935/2004 incl. last amendments
	Regulation EU 10/2011 incl. last amendments



In compliance with RoHS and REACH directives.

This information is based on our available data. These values are measured on standard test specimens and are within the normal tolerance range of material properties and do not represent guaranteed property values. Therefore they shall not be used for specification purposes. The customer is solely responsible for quality and suitability of material for his application. He has to test usage and processing prior to use. Angst+Pfister makes no guarantees for the suitability of the material for any given application and assumes no obligation or liability in connection with the information provided above.

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