APSOplast® PMMA-GS



Engineering plastics technology Technical Data Sheet

Material name, short description	PMMA-GS
Material name, based on technical standards	Polymethyl methacrylate cast
Density	1.2 g/cm ³
Color	
Compound code	PMMA-GS 00.007-00

Mechanical properties

Modulus of elasticity & tension 1	≥ 2800 N/mm² ISO 527-1,-2 23 °C
Tensile strength	≥ 67 N/mm² ISO 527-1,-2 23 °C
Elongation at break	4 % ISO 527-1,-2 23 °C
Compressive strength 1	18 N/mm² permanent
Impact strength	≥ #ErrorkJ/m² ISO 179 Charpy, 23 °C
Notch impact strength	2.00 kJ/m² ISO 179 Charpy, 23 °C
Coefficienct of sliding friction	0.45-0.54 p = 0.3 N/mm2 / 0.6 N/mm2, v = 0.27 m/s, against steel, hardened and ground

Thermal attributes

Min. operating temperature	-40 °C
Max. operating temperature long term	0° C
Max. operating temperature short term	100 °C
Coefficient of linear thermal expansion 1	80 * 10 ⁻⁶ K ⁻¹ ISO 11359 23 -60 °C
Specific heat capacity	1.47 J/(g·K) DIN 52612

Electrical attributes

Surface resistivity	10 ¹⁴ Ω DIN IEC 60093
Volume resistivity	10 ¹⁵ Ω*cm DIN IEC 60093

Other attributes

Moisture absorption	0.17 % ISO 62
	Norm climate (23 °C, 50 % RF)

Approvals / Compliance

Food & Beverage	FDA CFR 21 - 177.1010 "Acrylic and modified acrylic plastics, semirigid and rigid"
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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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