

Technical specification Oroglas®

TECHNICAL OF SPECIFICATIONS

Oroglas ® cast acrylic sheets complies with the international standard ISO 7823-1.

	TEST	UNIT	VALUES
MECHANICAL PROPERTIES:			
Tensile strength	ISO 527	MPa	76
Compressive strength	ISO 684	MPa	130
Flexural strength	ISO 178	MPa	130
Impact strength	ISO 179-1	kJ/m ²	12
Modulus of elasticity	ISO 527	MPa	3300
Elongation at break	ISO 527	%	6
Indentation hardness (Rockwell scale M)	ISO 2039-1		100
THERMAL PROPERTIES:			
Vicat softening point (B50)	ISO 306	°C	115
Forming temperature		°C	130-190
Max continuous service temperature		°C	85
Coefficient of linear thermal expansion	EN 2155-1	mm/m/°C	0.065
Specific heat		kJ/kg/°C	1.32
Thermal conductivity	DIN 52 612	W/m/°C	0.17
Linear shrinkage after heating		%	< 2
ELECTRICAL PROPERTIES:			
Dielectric strength	DIN EN 60243-2	kV/mm	20-25
Volume resistivity	DIN IEC 167	ohm x cm	>10 ¹⁵
Dielectric constant, 103 Hz	DIN 53 483		3.7
Dissipation factor, 50 Hz	DIN 53 483		0.06
OTHER PROPERTIES:			
Specific gravity	ISO 1183	g/cm ³	1.19
Water absorption (at 20°C in 24 hour)	ISO 62	%	0.30
Light transmission (clear sheet)	DIN 5036	%	92