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Technical Properties of:		senocryl® G (Acrylic PMMA Cast)		
Edition / Date:		1 / 28-10-2021		
Characteristics		Unit	Test method	Value
MECHANICAL PROPERTIES				
Tensile strength	23 °C	MPa	ISO 527	75
Charpy impact strength		kJ/m ²	ISO 179	17
Charpy notched impact strength		kJ/m ²	ISO 179	2
Elongation at break	23°C	%	ISO 527	6
Flexural Strength		MPa	ISO 178	120
Rockwell Hardness	23 °C	M-Skala	ISO 2039-2	105
Bending Modulus		MPa	ISO 178	3 200
Tensile E-Modulus		MPa	ISO 527	3 400
DIELECTRIC PROPERTIES				
Permittivity	of 1 MHz		DIN 53483	2.7
Dissipation Factor			DIN 53483	0.06
Creep current resistance		KV/mm	IEC 60243-1	10
Dielectric Strength		KV/mm	IEC 60243	30
Surface Resistivity		Ω	IEC 60093	10 ¹⁴
Resistivity		Ohm x cm	IEC 60093	10 ¹⁵
PHYSICAL PROPERTIES				
Density	23°C	g/cm ³	ISO 1183-1	1.19
BURNING BEHAVIOUR				
Flammability classification*			UL 94	HB
Fire Behavior			DIN 4102	B2
THERMAL PROPERTIES				
Vicat B/50	50N / 50K/h	°C	ISO 306	110
Operating temperature range	long term (months)	°C	-	-30 bis +80
Coefficient of thermal expansion		10 ⁻⁴ K ⁻¹	ISO 11359	0.7
Specific thermal capacity		J/(g.K)	-	2.16
GENERAL				
Water Absorption	23°C	%	ISO 62	0.2
Water Absorption - Water Storage		%	ISO 62	2.1
Transmittance		%	ISO 13468-2	92
Thermal conductivity			DIN 52 612	0.19