

# Plazcast<sup>®</sup> SANITARY

## TECHNICAL SPECIFICATION ISO 7823-1<sup>1</sup>

PROPERTIES	Value	Unit	Method
Density	1,2	g/cm <sup>3</sup>	ISO 1183
Water absorption	0,19	%	ISO 62
<b>Mechanical</b>			
Tensile Strength	72	MPa	ISO 527
Tensile Modulus	3000	MPa	ISO 527
Elongation at break	5	%	ISO 527
Impact resistant – charpy	17	KJ/m <sup>2</sup>	ISO 179/2D
Rockwell hardness	100		ISO 2039/2
Flexural Strength	100	MPa	ISO 178
<b>Electrical</b>			
Specific Resistivity	>10 <sup>15</sup>	Ohm	DIN 53458
Volume Resistivity	>10 <sup>15</sup>	Ohm.cm	DIN 53458
Dielectric Constant			
a) 50 Hz	3,6		DIN 53483
b) 0,1 Hz	2,8		
<b>Thermal</b>			
Coefficient of linear thermal expansion	70,6.10 <sup>-6</sup>	K <sup>-1</sup>	EN 2155-12
Vicat softening temperature	103-110	°C	ISO 306
Temp. of deflection under load 1.8 Mpa	101	°C	ISO 75
Dimensional variation to high temperature (acceptance)	2,3	%	Anex
<b>Optical</b>			
Light transmission			
a) Total light transmission to 380-780nm	93		
b) Light transmission to 420 nm	92,6		
c) Light transmission to 420 nm after 1000 hours into the xenon lamp	91,04	%	ISO 2857
Aging to artificial light			
a) Light transmission to 420 nm after 672 hours into the mercury lamp	82	%	ISO 2857
HAZE (clear sheet)	0,4	%	EN 2155-9
Refractive index (clear sheet)	1,492	-	ISO/R 489

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<sup>1</sup> The values of this table are referred to MC0100SN0030 Plazcast value.

