

# Acrylic - Cast Acrylic

## Standard Sheet

Black	
Size (mm)	
3050 x 2050 x 5	

Clear UVP	
Size (mm)	Size (mm)
3050 x 2050 x 3	3050 x 2050 x 5

Opal	
Size (mm)	Size (mm)
2440 x 1830 x 3	3050 x 2030 x 3
3040 x 2040 x 3	3050 x 2030 x 5
3040 x 2040 x 5	3050 x 2030 x 6

Standard Clear	
Size (mm)	Size (mm)
2440 x 1220 x 3	3030 x 2010 x 8
2440 x 1220 x 4	3030 x 2010 x 10
2440 x 1220 x 5	3030 x 2010 x 12
2440 x 1220 x 6	3030 x 2030 x 12
3000 x 2000 x 8	3030 x 2030 x 15
3000 x 2000 x 10	3050 x 2030 x 3
3000 x 2000 x 12	3050 x 2030 x 4
3000 x 2000 x 15	3050 x 2030 x 5
3000 x 2000 x 20	3050 x 2030 x 6

White	
Size (mm)	Size (mm)
3050 x 2030 x 3	3050 x 2030 x 5

## Properties

Electrical Properties				
Property	Test Method	Units	Value	
Dielectric Constant 50Hz	DIN 53483		3.6	
Volume Resistivity	DIN 53482	Ω.cm	10 <sup>15</sup>	
Surface Resistivity	DIN 53482	Ω	10 <sup>14</sup>	
Dielectric Strength	DIN 53481	kV/mm	30	
Dissipation Factor (50Hz)	DIN 53483		0.06	

Impact Strengths				
Property	Test Method	Units	Value	
Izod (notched)	ISO 180	Kj/m <sup>2</sup>	-	
Charpy (notched)	ISO 179	Kj/m <sup>2</sup>	2	
Charpy (unnotched)	ISO 179	Kj/m <sup>2</sup>	15	

Mechanical Properties				
Property	Test Method	Units	Value	
Flexural Modulus	ISO 178	MPa	3000	
Flexural Strength	ISO 178	MPa	125	
Tensile Modulus	ISO 527	MPa	3300	
Tensile Strength	ISO 527	MPa	75	
Elongation	ISO 527	%	6	

Optical Properties				
Property	Test Method	Units	Value	
Light Transmission	ISO 13468-1	M scale	93	
Refractive Index	ISO 489	nD 20	1.492	

Physical Properties				
Property	Test Method	Units	Value	
Density	ISO 1183	g/cm <sup>3</sup>	1.19	
Rockwell hardness	ISO 2039-2	M Scale	105	

Thermal Properties				
Property	Test Method	Units	Value	
Vicat Temperature (VST/A 50)	ISO 306	°C	115	
Heat Deflection Temp (A)	ISO 75	°C	105	
Specific Heat Capacity	ISO 3146-C-60 °C	J/g.K	2.16	
Coefficient of Linear Thermal Expansion	ISO 11359-2	K-1 x 10-5	7	
Thermal Conductivity	DIN 52612	W/m.K	0.19	
Degradation Temperature		°C	>280	
Max Service Temperature Continuous Use		°C	80	
Max Service Temperature Short Term Use		°C	90	
Sheet Forming Temp Range		°C	160-190	

## Disclaimer

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