

Acrylic - Extruded Acrylic

Standard Sheet

| 100% Hi Impact Clear | |
|----------------------|-----------------|
| Size range (mm) | Size range (mm) |
| 3050 x 2050 x 2 | 3050 x 2050 x 5 |
| 3050 x 2050 x 3 | 3050 x 2050 x 6 |
| 3050 x 2050 x 4 | |

| 100% Hi Impact Opal 066 | |
|-------------------------|-----------------|
| Size (mm) | Size range (mm) |
| 3050 x 2050 x 3 | 3050 x 2050 x 5 |
| 3050 x 2050 x 4 | |

| 50% Hi Impact Sheet Clear | |
|---------------------------|-----------------|
| Size (mm) | Size range (mm) |
| 3050 x 2050 x 2 | 3050 x 2050 x 5 |
| 3050 x 2050 x 3 | 3050 x 2050 x 6 |
| 3050 x 2050 x 4 | |

| Clear Sheet | |
|-------------------|-------------------|
| Size (mm) | Size range (mm) |
| 2500 x 1250 x 2 | 3050 x 2050 x 2.5 |
| 2500 x 1250 x 2.5 | 3050 x 2050 x 3 |
| 2500 x 1250 x 3 | 3050 x 2050 x 4 |
| 2500 x 1250 x 4 | 3050 x 2050 x 5 |
| 2500 x 1250 x 5 | 3050 x 2050 x 6 |
| 2500 x 1250 x 6 | 3050 x 2050 x 8 |
| 2500 x 1250 x 8 | 3050 x 2050 x 10 |
| 3050 x 2000 x 1.5 | 3050 x 2050 x 12 |
| 3050 x 2050 x 2 | |

| Colours - Black | |
|-----------------|-----------------|
| Size (mm) | Size range (mm) |
| 3050 x 2050 x 3 | 3050 x 2050 x 5 |

| Silver Mirror - 1 Side | |
|------------------------|--|
| Size (mm) | |
| 2440 x 1220 x 3 | |

Properties

| Electrical Properties | | |
|--------------------------------------|-------------|--|
| Property | Test Method | Value |
| Surface Resistivity | IEC 60093 | 3×10^{-15} |
| Volume Resistivity | IEC 60093 | $1 \times 10^{-13} \text{ to } 5 \times 10^{13}$ |
| Dielectric Strength | IEC 60243-1 | 30 |
| Dielectrical Dissipation Factor 50Hz | DIN 53483-2 | 0.06 |
| Relative Permittivity 50Hz | DIN 53483-2 | 2.7 |

| Fire Performance | | |
|------------------------|-------------|-------|
| Property | Test Method | Value |
| Material Thickness 3mm | DIN 4102 | B2 |

| Light Transmission | | |
|--------------------|-------------|-------|
| Property | Test Method | Value |
| Clear S (3mm) | DIN 5036 | 92% |
| Opal AG (3mm) | DIN 5036 | 34% |
| Opal AG (5mm) | DIN 5036 | 33% |

| Mechanical Properties | | |
|---------------------------|-------------|---------|
| Property | Test Method | Value |
| Tensile Strength @ -40 °C | DIN 53455 | 100 MPa |
| Tensile Strength @ 23 °C | DIN 53455 | 72 MPa |
| Tensile Strength @ 70 °C | DIN 53455 | 35 MPa |

| Physical Properties | | |
|---------------------|-------------|------------------------|
| Property | Test Method | Value |
| Density | DIN 53479 | 1.19 g/cm ³ |
| Water Absorption | DIN 53495:A | 30mg |
| Weight (3mm) | | 3.57 kg/m ² |
| Weight (6mm) | | 7.14 kg/m ² |

| Thermal Properties | | |
|-----------------------------------|-------------------------------|--------------------------------|
| Property | Test Method | Value |
| Heat Distortion Temperatures | Method B (0.45 MPa) DIN 53461 | 95°C |
| Heat Distortion Temperatures | Method A (1.81 MPa) DIN 53461 | 90°C |
| Thermal Conductivity | DIN 52612 | 0.19 W/K.m |
| Co-efficient of Thermal Expansion | DIN 53752:A | 70m/m.K x 10 ⁻⁶ |
| U Value | | 5.6W/m ^{20K} (3mm) |

| Tolerance | |
|--------------------|---------|
| Ranges | Value |
| Width up to 2050mm | +/- 5mm |

| | |
|-------------------|------------|
| Length up to 5m | -0, +10mm |
| Length over 5m | -0, +25mm |
| Thickness: 2-10mm | +/- 0.05mm |

Disclaimer

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