

# PETG - Clear

## Standard Sheet

| Stock             |                    |
|-------------------|--------------------|
| Size (mm)         | Size (mm)          |
| 2050 x 1250 x 0.8 | 2500 x 1250 x 6.0  |
| 2050 x 1250 x 1.0 | 3050 x 2050 x 2.0  |
| 2050 x 1250 x 6.0 | 3050 x 2050 x 3.0  |
| 2500 x 1250 x 1.5 | 3050 x 2050 x 4.0  |
| 2500 x 1250 x 2.0 | 3050 x 2050 x 5.0  |
| 2500 x 1250 x 3.0 | 3050 x 2050 x 6.0  |
| 2500 x 1250 x 4.0 | 3050 x 2050 x 8.0  |
| 2500 x 1250 x 5.0 | 3050 x 2050 x 10.0 |

## Properties

| Electrical Properties                   |             |                                    |                   |  |  |
|---|-------------|------------------------------------|-------------------|--|--|
| Property                                | Test Method | Units                              | Value             |  |  |
| Dielectric Constant 100Hz               | IEC 250     |                                    | 3.6               |  |  |
| Volume Resistivity                      | D257        | Ω.cm                               | >10 <sup>15</sup> |  |  |
| Surface Resistivity                     | D257        | Ω                                  | >10 <sup>14</sup> |  |  |
| Dielectric Strength                     | D149        | kV/mm                              | 16                |  |  |
| Dissipation Factor (50Hz)               | IEC 250     |                                    | 0.01              |  |  |
| Impact Strengths                        |             |                                    |                   |  |  |
| Property                                | Test Method | Units                              | Value             |  |  |
| Izod (notched)                          | ISO180      | Kj/m <sup>2</sup>                  | 11.5              |  |  |
| Charpy (notched)                        | 53453       | Kj/m <sup>2</sup>                  | 10                |  |  |
| Charpy (unnotched)                      | 53453       | Kj/m <sup>2</sup>                  | NB                |  |  |
| Mechanical Properties                   |             |                                    |                   |  |  |
| Property                                | Test Method | Units                              | Value             |  |  |
| Flexural Modulus                        | 53452       | MPa                                | 2075              |  |  |
| Flexural Strength                       | 53452       | MPa                                | 70                |  |  |
| Tensile Modulus                         | 53455       | MPa                                | 2200              |  |  |
| Tensile Strength                        | 53455       | MPa                                | 50                |  |  |
| Elongation                              | 53455       | %                                  | 54                |  |  |
| Optical Properties                      |             |                                    |                   |  |  |
| Property                                | Test Method | Units                              | Value             |  |  |
| Light Transmission                      | 5036        | %                                  | 88                |  |  |
| Refractive Index                        | 53491       |                                    | 1.57              |  |  |
| Haze                                    | D1003       | %                                  | <1                |  |  |
| Physical Properties                     |             |                                    |                   |  |  |
| Property                                | Test Method | Units                              | Value             |  |  |
| Density                                 | D1505       | g/cm <sup>3</sup>                  | 1.27              |  |  |
| Rockwell Hardness                       | D-785       | R scale                            | 105               |  |  |
| Thermal Properties                      |             |                                    |                   |  |  |
| Property                                | Test Method | Units                              | Value             |  |  |
| Vicat Temp (A)                          | 53460       | °C                                 | 82                |  |  |
| Heat Deflection Temp (A/B)              | 53461       | °C                                 | 72/68             |  |  |
| Specific Heat Capacity                  | D-2766      | J/g.K                              | 1.1               |  |  |
| Coefficient of Linear Thermal Expansion | 53752       | K <sup>-1</sup> x 10 <sup>-5</sup> | 6.8               |  |  |
| Thermal Conductivity                    | 52612       | W/m.K                              | 0.20              |  |  |
| Degradation Temperature                 |             | °C                                 | >280              |  |  |
| Max Service Temperature                 |             | °C                                 | 70                |  |  |
| Sheet Forming Temperature Range         |             | °C                                 | 120-160           |  |  |

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