



**Polymethyl Methacrylate ( PMMA)**

**SX-302**

| Items                                    | Test standards | Unit    | Data               |
|------------------------------------------|----------------|---------|--------------------|
| <b>Optical Properties</b>                |                |         |                    |
| Refractive index                         | ISO 489        | -       | 1.49               |
| Transmittance                            | ISO 13468-1    | %       | 93                 |
| Fuzzy Coefficient(Haze)                  | ISO-14782      | %       | 0.3                |
| <b>Thermal properties</b>                |                |         |                    |
| Coefficient of linear thermal expansion  | ISO 11359-2    | 1/°C    | 7×10-5             |
| Vicat Softening temperature ( VST )      | ISO 306        | °C      | 89                 |
| Load heat distortion temperature 1.82Mpa | ISO 75-2       | °C      | 84                 |
| 230 °C 3.8 kg melt flow index (MFI)      | ISO 1133       | g/10min | 9.5                |
| <b>Mechanical properties</b>             |                |         |                    |
| Tensile strength                         | ISO 527-2      | Mpa     | 70                 |
| Tensile rate                             | ISO 527-2      | %       | 4                  |
| Bending strength                         | ISO 178        | MPa     | 120                |
| Flexural modulus                         | ISO 178        | MPa     | 3200               |
| Charpy impact strength (with notch)      | ISO 179-1      | KJ/m2   | 1.4                |
| Rockwell hardness                        | ISO 2039-2     | -       | 93                 |
| <b>Electrical properties</b>             |                |         |                    |
| Surface resistivity                      | IEC 60093      | Ω       | > 10 <sup>16</sup> |
| Volume resistivity                       | IEC 60093      | Ωcm     | > 10 <sup>14</sup> |
| Dielectric coefficient of resistance     | IEC 60167      | Ω       | > 10 <sup>15</sup> |

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|                     |             |       |     |
|---------------------|-------------|-------|-----|
| Dielectric strength | IEC 60243-1 | Kv/mm | 20  |
| Dielectric constant | IEC 60250   | -     | 3.5 |

### Other properties

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|                   |           |   |         |
|-------------------|-----------|---|---------|
| Density           | ISO 118   | - | 1.19    |
| Molding shrinkage | ISO 294-4 | % | 0.2-0.6 |
| Water absorption  | ISO 62    | % | 0.3     |
| Flame retardant   | UL 94     | - | HB      |

**\*The above data is accurate and reliable, but it's only a representative sample of data**

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