

SX-303

PMMA

Suzhou Double Elephant Optical Material Co., Ltd.

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|-------------------------------------|------------|---------|---------------|
| ISO Data | | | |
| Melt flow index, MFI | 4 | g/10min | ISO 1133 |
| Temperature | 230 | °C | - |
| Load | 3.8 | kg | - |

| Mechanical properties | Value | Unit | Test Standard |
|---------------------------------------|------------|-------------------|---------------|
| ISO Data | | | |
| Tensile Strength | 75 | MPa | ISO 527 |
| Strain at break | 5 | % | ISO 527 |
| Charpy notched impact strength, +23°C | 1.5 | kJ/m ² | ISO 179/1eA |

| Thermal properties | Value | Unit | Test Standard |
|--|------------|------|---------------|
| ISO Data | | | |
| Temp. of deflection under load, 1.80 MPa | 98 | °C | ISO 75-1/-2 |
| Vicat softening temperature, B | 106 | °C | ISO 306 |

| Electrical properties | Value | Unit | Test Standard |
|--------------------------------------|-------------|-------|---------------|
| Other Standards^[5] | | | |
| Volume resistivity | 1E14 | Ohm*m | GB/T1410 |
| Surface resistivity | 1E16 | Ohm | GB/T1410 |

S: These properties are reported by the producer according standards that are different to our defaults.

| Optical properties | Value | Unit | Test Standard |
|--------------------------------------|-------------|------|---------------|
| Other Standards^[5] | | | |
| Light Transmittance | 93 | % | ISO 13468 |
| Index of Refraction | 1.49 | - | ISO 489 |

S: These properties are reported by the producer according standards that are different to our defaults.

| Other properties | Value | Unit | Test Standard |
|------------------|-------------|-------------------|----------------|
| Water absorption | 0.3 | % | Sim. to ISO 62 |
| Density | 1190 | kg/m ³ | ISO 1183 |

Characteristics**Processing**

Injection Molding, Other Extrusion, Casting

Delivery form

Pellets

Special Characteristics

Heat stabilized or stable to heat, Transparent

Features

Light Guiding

Chemical Resistance

Acid Resistance, Alkali Resistance, General Chemical Resistance

Applications

Automotive, Electrical and Electronical

Regional Availability

Asia Pacific