

POLYCARBONATE



| PROPERTIES | VALUE | UNIT | TEST METHOD |
|------------|-------|------|-------------|
|------------|-------|------|-------------|

| GENERAL | | | |
|------------------|-----|-------------------|--------------------------|
| Density | 1.2 | g/cm ³ | ISO 1183-1:2019 Method A |
| Water Absorption | 0.2 | % | ISO 62:2008 |

| MECHANICAL | | | |
|---------------------------------|------|-------------------|-------------------------|
| Tensile Strength | 60 | MPa | ISO 527-2:2012 |
| Tensile Strain at Break | 80 | % | ISO 527-2:2012 |
| Tensile Modulus | 2300 | MPa | ISO 527-2:2012 |
| Flexural Strength | 90 | MPa | ISO 178:2019 Method A,B |
| Flexural Modulus | 2300 | MPa | ISO 178:2019 Method A,B |
| Charpy Impact Strength, Notched | 40 | kJ/m ² | ISO 179-1:2010 |
| Izod Impact Strength, Notched | 70 | kJ/m ² | ISO 180:2000+Amd.2:2013 |
| Rockwell Hardness, L-scale | 100 | | ASTM D785 |
| Rockwell Hardness, M-scale | N/A | | ASTM D785 |
| Rockwell Hardness, R-scale | N/A | | ASTM D785 |

| THERMAL | | | |
|---|---------|--------------------------|----------------------------------|
| Vicat Softening Temperature | 135 | °C | ISO 306:2013 |
| Heat Deflection Temperature, 1.82MPa | 125 | °C | DIN53752 |
| Coefficient of Linear Thermal Expansion | 7 | m/m.K x 10 ⁻⁵ | DIN53752 |
| Self Ignition Temperature | 550 | °C | ASTM D 1929 |
| Flash Ignition Temperature | 480 | °C | ASTM D 1929 |
| Glow Wire Ignition Temperature (3 mm) | 900 | °C | IEC 60695-2-13 |
| Burning Behaviour, Vertical | N/A | | UL 94-2013/ Rev.9-2018 Section 8 |
| Burning Behaviour, Horizontal (1.5 mm) | HB | | UL 94-2013/ Rev.9-2018 Section 7 |
| Continuous Service Temperature | 110 | °C | |
| Short Term Service Maximum Temperature | 120 | °C | |
| Moulding Range | 200-260 | °C | |

| OPTICAL | | | |
|--------------------------------|------|----------------|-----------|
| Light Transmission Clear (3mm) | 88 | °C | 520nm |
| Light Transmission Grey (3mm) | 22 | °C | 520nm |
| Light Transmission Opal (3mm) | 20 | % | 520nm |
| Refractive Index | 1.59 | n _p | DIN5036-3 |
| Haze | <0.8 | % | ISO 14782 |

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