

INEOS ABS

Lustran ABS E112LG

Extrusion grade for low gloss surfaces

ISO Shortname: ISO 2580-1 -ABS 0, EG, 095-08-09-15

| Property | Test Condition | Unit | Standard | Value |
|---|----------------|---------------------------|-------------------|-----------|
| Rheological properties | | | | |
| C Molding shrinkage, normal | 60x60x2 | % | ISO 294-4 | 0.5 - 0.8 |
| C Melt volume-flow rate | 220 °C; 10 kg | cm ³ /(10 min) | ISO 1133 | 6 |
| C Molding shrinkage, parallel | 60x60x2 | % | ISO 294-4 | 0.5 - 0.8 |
| Mechanical properties (23 °C/50 % r. h.) | | | | |
| C Yield stress | 50 mm/min | MPa | ISO 527-1,-2 | 26 |
| Tensile Strain at break | 50 mm/min | % | acc. ISO 527-1,-2 | > 15 |
| C Tensile modulus | 1 mm/min | MPa | ISO 527-1,-2 | 1500 |
| Flexural strength | 2 mm/min | MPa | ISO 178 | 43 |
| Flexural modulus | 2 mm/min | MPa | ISO 178 | 1500 |
| Izod notched impact strength | 23 °C | kJ/m ² | ISO 180-1A | 8 |
| Izod notched impact strength | -30 °C | kJ/m ² | ISO 180-1A | 7 |
| C Yield strain | 50 mm/min | % | ISO 527-1,-2 | 3.2 |
| C Charpy impact strength | 23 °C | kJ/m ² | ISO 179-1eU | 120 |
| C Charpy impact strength | -30 °C | kJ/m ² | ISO 179-1eU | 70 |
| C Charpy notched impact strength | 23 °C | kJ/m ² | ISO 179-1eA | 9 |
| C Charpy notched impact strength | -30 °C | kJ/m ² | ISO 179-1eA | 8 |
| Ball indentation hardness | | N/mm ² | ISO 2039-1 | 65 |
| Thermal properties | | | | |
| C Temperature of deflection under load | 1.80 MPa | °C | ISO 75-1,-2 | 95 |
| C Temperature of deflection under load | 0.45 MPa | °C | ISO 75-1,-2 | 100 |
| C Vicat softening temperature | 50 N; 50 °C/h | °C | ISO 306 | 98 |
| C Coefficient of linear thermal expansion, parallel | 23 to 55 °C | 10 ⁻⁴ /K | ISO 11359-1,-2 | 0.9 |
| Electrical properties (23 °C/50 % r. h.) | | | | |
| C Relative permittivity | 100 Hz | - | IEC 60250 | 3.0 |
| C Relative permittivity | 1 MHz | - | IEC 60250 | 2.9 |
| C Dissipation factor | 100 Hz | 10 ⁻⁴ | IEC 60250 | 50 |
| C Dissipation factor | 1 MHz | 10 ⁻⁴ | IEC 60250 | 90 |
| C Electric strength | 1 mm | kV/mm | IEC 60243-1 | 36 |
| Other properties (23 °C) | | | | |
| Density | | g/cm ³ | ISO 1183 | 1.040 |
| Processing conditions for test specimens | | | | |
| C Injection molding-Melt temperature | | °C | ISO 294 | 240 |
| C Injection molding-Mold temperature | | °C | ISO 294 | 70 |
| C Injection molding-Injection velocity | | mm/s | ISO 294 | 240 |