

- LEXAN 940 701 -

| PROPERTIES | UNIT | TEST METHOD | VALUES |
|--|-------------------|-------------|--------------------|
| <u>Physical</u> | | | |
| unreinforced | | | |
| Density | g/cm ³ | ISO 1183 | 1.20 |
| Coefficient of thermal expansion in flow direction CTE (23°C-60°C) | 1/°C | ASTM D696 | 7-10 ⁻⁵ |
| Water absorption at saturation at 23°C | % | ISO 62 | 0.35 |
| <u>Mechanical</u> | | | |
| Tensile stress - at yield (at break) at 50 mm/min | MPa | ISO 527 | 63 (60) |
| Tensile strain - at yield (at break) at 50 mm/min | % | ISO 527 | 6 (85) |
| Tensile modulus at 1mm/min | MPa | ISO 527 | 2350 |
| Flexural stress at yield (at break) at 2 mm/min | MPa | ISO 178 | - (-) |
| Flexural modulus at 2 mm/min | MPa | ISO 178 | 2300 |
| Hardness H 358/30 | MPa | ISO 2039-1 | 98 |
| Abrasion resistance Taber, CS-17, 1 kg | mg/1000cy | GE | 10 |
| Impact Izod notched at +23°C (- 30°C) | kJ/m ² | ISO 180-1A | 12 (11) |
| <u>Thermal</u> | | | |
| Vicat A/50 10N (method A) at 50°C/h | °C | ISO 306 | 150 |
| Vicat B/50 50N (method B) at 50°C/h | °C | ISO 306 | 141 |
| HDT / Ae at 1,80 MPa | °C | ISO 75/Ae | 125 |
| HDT / Be at 0,45 MPa | °C | ISO 75/Be | 136 |
| Relative Temperature Index RTI – electrical properties | °C | UL746B | 130 |
| Relative Temperature Index RTI – mechanical properties with impact | °C | UL746B | 120 |
| UL 94 rating flame class rating / at mm thickness | Class / mm | UL94 | V0/1.00 |
| Limited Oxygen Index- LOI | % | ASTM D2863 | 35 |
| <u>Electrical</u> | | | |
| Dielectric strength at 3,2 mm | kV/mm | ASTM D149 | 17 |
| Surface resistivity | Ohm | ASTM D257 | >10 ¹⁵ |
| Volume resistivity | Ohm,cm | ASTM D257 | >10 ¹⁵ |
| Dielectric constant at 50 Hz | - | ASTM D150 | 3.0 |
| Dielectric constant at 1 MHz | - | ASTM D150 | 2.9 |
| Dissipation factor at 50 Hz | - | ASTM D150 | 0.001 |
| Dissipation factor at 1 MHz | - | ASTM D150 | 0.01 |
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The values indicated are it with titles codes and do not engage to in no case the responsibility for company PHT



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