



## LEXAN™ Resin SLX2071T

### Europe-Africa-Middle East: COMMERCIAL

High viscosity PC copolymer blend with enhanced UV stabilization and added release agent. V2 rated. Available in transparent and tinted colors

| TYPICAL PROPERTIES <sup>1</sup>              | TYPICAL VALUE | Unit                | Standard    |
|----------------------------------------------|---------------|---------------------|-------------|
| <b>MECHANICAL</b>                            |               |                     |             |
| Tensile Stress, yld, Type I, 50 mm/min       | 680           | kgf/cm <sup>2</sup> | ASTM D 638  |
| Tensile Stress, brk, Type I, 50 mm/min       | 770           | kgf/cm <sup>2</sup> | ASTM D 638  |
| Tensile Strain, yld, Type I, 50 mm/min       | 6.3           | %                   | ASTM D 638  |
| Tensile Strain, brk, Type I, 50 mm/min       | >100          | %                   | ASTM D 638  |
| Tensile Modulus, 5 mm/min                    | 23800         | kgf/cm <sup>2</sup> | ASTM D 638  |
| Flexural Stress, yld, 1.3 mm/min, 50 mm span | 970           | kgf/cm <sup>2</sup> | ASTM D 790  |
| Flexural Modulus, 1.3 mm/min, 50 mm span     | 21600         | kgf/cm <sup>2</sup> | ASTM D 790  |
| Tensile Stress, yield, 50 mm/min             | 67            | MPa                 | ISO 527     |
| Tensile Stress, break, 50 mm/min             | 76            | MPa                 | ISO 527     |
| Tensile Strain, yield, 50 mm/min             | 6.3           | %                   | ISO 527     |
| Tensile Strain, break, 50 mm/min             | >100          | %                   | ISO 527     |
| Tensile Modulus, 1 mm/min                    | 2340          | MPa                 | ISO 527     |
| Flexural Stress, yield, 2 mm/min             | 96            | MPa                 | ISO 178     |
| Flexural Modulus, 2 mm/min                   | 2120          | MPa                 | ISO 178     |
| <b>IMPACT</b>                                |               |                     |             |
| Izod Impact, notched, 23°C                   | 83            | cm-kgf/cm           | ASTM D 256  |
| Izod Impact, notched, -30°C                  | 14            | cm-kgf/cm           | ASTM D 256  |
| Instrumented Impact Total Energy, 23°C       | 866           | cm-kgf              | ASTM D 3763 |
| <b>THERMAL</b>                               |               |                     |             |
| Vicat Softening Temp, Rate B/50              | 135           | °C                  | ASTM D 1525 |
| HDT, 1.82 MPa, 3.2mm, unannealed             | 134           | °C                  | ASTM D 648  |
| CTE, -40°C to 40°C, flow                     | 7.E-05        | 1/°C                | ASTM E 831  |
| CTE, -40°C to 40°C, xflow                    | 7.E-05        | 1/°C                | ASTM E 831  |



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| <b>THERMAL</b>                        |               |                         |              |
| CTE, -40°C to 40°C, flow              | 7.E-05        | 1/°C                    | ISO 11359-2  |
| CTE, -40°C to 40°C, xflow             | 7.E-05        | 1/°C                    | ISO 11359-2  |
| Vicat Softening Temp, Rate B/50       | 137           | °C                      | ISO 306      |
| Vicat Softening Temp, Rate B/120      | 139           | °C                      | ISO 306      |
| HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm | 121           | °C                      | ISO 75/Af    |
| <b>PHYSICAL</b>                       |               |                         |              |
| Specific Gravity                      | 1.2           | -                       | ASTM D 792   |
| Mold Shrinkage, flow, 3.2 mm (5)      | 0.5 - 0.7     | %                       | SABIC Method |
| Melt Flow Rate, 300°C/1.2 kgf         | 6             | g/10 min                | ASTM D 1238  |
| Density                               | 1.2           | g/cm <sup>3</sup>       | ISO 1183     |
| Water Absorption, (23°C/sat)          | 0.35          | %                       | ISO 62       |
| Moisture Absorption (23°C / 50% RH)   | 0.15          | %                       | ISO 62       |
| Melt Volume Rate, MVR at 300°C/1.2 kg | 5             | cm <sup>3</sup> /10 min | ISO 1133     |
| <b>OPTICAL</b>                        |               |                         |              |
| Light Transmission, 2.54 mm           | 89            | %                       | ASTM D 1003  |
| Haze, 2.54 mm                         | 0.5           | %                       | ASTM D 1003  |



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| PROCESSING PARAMETERS       | TYPICAL VALUE | Unit |
|-----------------------------|---------------|------|
| <b>Profile Extrusion</b>    |               |      |
| Drying Temperature          | 105           | °C   |
| Drying Time                 | 2 - 3         | hrs  |
| Melt Temperature            | 220 - 250     | °C   |
| Barrel - Zone 1 Temperature | 240 - 280     | °C   |
| Barrel - Zone 2 Temperature | 240 - 280     | °C   |
| Barrel - Zone 3 Temperature | 220 - 240     | °C   |
| Barrel - Zone 4 Temperature | 220 - 240     | °C   |
| Hopper Temperature          | 60 - 80       | °C   |
| Adapter Temperature         | 220 - 240     | °C   |
| Die Temperature             | 245 - 290     | °C   |
| Calibrator Temperature      | 60 - 100      | °C   |