

## LEXANT™ FR RESINS 940

REGION EUROPE

### DESCRIPTION

LEXANT™ 940 resin is a 10 MFR polycarbonate. Mold release. Flame retardant, UL94 V0 rated, UL746C f1 rated. Available in opaque colors.

### TYPICAL PROPERTY VALUES

Revision 20260331

| PROPERTIES                                  | TYPICAL VALUES | UNITS     | TEST METHODS   |
|---------------------------------------------|----------------|-----------|----------------|
| <b>MECHANICAL</b>                           |                |           |                |
| Taber Abrasion, CS-17, 1 kg                 | 10             | mg/1000cy | SABIC method   |
| Tensile Stress, yield, 50 mm/min            | 63             | MPa       | ISO 527        |
| Tensile Stress, break, 50 mm/min            | 60             | MPa       | ISO 527        |
| Tensile Strain, yield, 50 mm/min            | 6              | %         | ISO 527        |
| Tensile Strain, break, 50 mm/min            | 85             | %         | ISO 527        |
| Tensile Modulus, 1 mm/min                   | 2350           | MPa       | ISO 527        |
| Flexural Stress, yield, 2 mm/min            | 90             | MPa       | ISO 178        |
| Flexural Modulus, 2 mm/min                  | 2300           | MPa       | ISO 178        |
| Ball Indentation Hardness, H358/30          | 95             | MPa       | ISO 2039-1     |
| <b>IMPACT</b>                               |                |           |                |
| Izod Impact, unnotched 80°10°3 +23°C        | NB             | kJ/m²     | ISO 180/1U     |
| Izod Impact, unnotched 80°10°3 -30°C        | NB             | kJ/m²     | ISO 180/1U     |
| Izod Impact, notched 80°10°3 +23°C          | 70             | kJ/m²     | ISO 180/1A     |
| Izod Impact, notched 80°10°3 -30°C          | 12             | kJ/m²     | ISO 180/1A     |
| Charpy 23°C, V-notch Edgew 80°10°3 sp=62mm  | 73             | kJ/m²     | ISO 179/1eA    |
| Charpy -30°C, V-notch Edgew 80°10°3 sp=62mm | 14             | kJ/m²     | ISO 179/1eA    |
| Charpy 23°C, Unnotch Edgew 80°10°3 sp=62mm  | NB             | kJ/m²     | ISO 179/1eU    |
| Charpy -30°C, Unnotch Edgew 80°10°3 sp=62mm | NB             | kJ/m²     | ISO 179/1eU    |
| Charpy Impact, notched, 23°C                | 30             | kJ/m²     | ISO 179/2C     |
| <b>THERMAL</b>                              |                |           |                |
| Thermal Conductivity                        | 0.2            | W/m·°C    | ISO 8302       |
| CTE, 23°C to 80°C, flow                     | 7.E-05         | 1/°C      | ISO 11359-2    |
| Ball Pressure Test, 125°C +/- 2°C           | PASSES         | -         | IEC 60695-10-2 |
| Ball Pressure Test, approximate maximum     | 140            | °C        | IEC 60695-10-2 |
| Vicat Softening Temp, Rate A/50             | 150            | °C        | ISO 306        |
| Vicat Softening Temp, Rate B/50             | 141            | °C        | ISO 306        |
| Vicat Softening Temp, Rate B/120            | 142            | °C        | ISO 306        |
| HDT/Be, 0.45MPa Edgew 120°10°4 sp=100mm     | 136            | °C        | ISO 75/Be      |
| HDT/Ae, 1.8 MPa Edgew 120°10°4 sp=100mm     | 125            | °C        | ISO 75/Ae      |
| Relative Temp Index, Elec                   | 130            | °C        | UL 746B        |
| Relative Temp Index, Mech w/impact          | 120            | °C        | UL 746B        |
| Relative Temp Index, Mech w/o impact        | 130            | °C        | UL 746B        |
| <b>PHYSICAL</b>                             |                |           |                |
| Mold Shrinkage on Tensile Bar, flow         | 0.5 – 0.7      | %         | SABIC method   |
| Density                                     | 1.2            | g/cm³     | ISO 1183       |

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| PROPERTIES                                    | TYPICAL VALUES                | UNITS                   | TEST METHODS   |
|-----------------------------------------------|-------------------------------|-------------------------|----------------|
| Water Absorption, (23°C/saturated)            | 0.35                          | %                       | ISO 62-1       |
| Moisture Absorption (23°C / 50% RH)           | 0.15                          | %                       | ISO 62         |
| Melt Volume Rate                              |                               |                         |                |
| 300°C/1.2 kg                                  | 9                             | cm <sup>3</sup> /10 min | ISO 1133       |
| OPTICAL                                       |                               |                         |                |
| Haze, 2.54 mm                                 | NA                            | %                       | ASTM D1003     |
| Refractive Index                              | NA                            | -                       | ISO 489        |
| ELECTRICAL                                    |                               |                         |                |
| Volume Resistivity                            | >1.E+15                       | Ω.cm                    | IEC 60093      |
| Surface Resistivity, ROA                      | >1.E+15                       | Ω                       | IEC 60093      |
| Dielectric Strength, shorttime, 1.0mm         | 17                            | kV/mm                   | IEC 60243-1    |
| Dielectric Strength, in oil, 3.2 mm           | 17                            | kV/mm                   | IEC 60243-1    |
| Relative Permittivity, 1 MHz                  | 2.7                           | -                       | IEC 60250      |
| Dissipation Factor                            |                               |                         |                |
| 50/60 Hz                                      | 0.001                         | -                       | IEC 60250      |
| 1 MHz                                         | 0.01                          | -                       | IEC 60250      |
| Comparative Tracking Index                    | 225                           | V                       | IEC 60112      |
| Relative Permittivity, 50/60 Hz               | 2.7                           | -                       | IEC 60250      |
| FLAME CHARACTERISTICS                         |                               |                         |                |
| UL Yellow Card Link                           | <a href="#">E45329-236667</a> | -                       | -              |
| UL Recognized, 94V-0 Flame Class Rating       | 1.1                           | mm                      | UL 94          |
| Glow Wire Flammability Index 850°C, passes at | 1                             | mm                      | IEC 60695-2-12 |
| Glow Wire Flammability Index 960°C, passes at | 1.6                           | mm                      | IEC 60695-2-12 |
| Glow Wire Ignitability Temperature, 1.0 mm    | 825                           | °C                      | IEC 60695-2-13 |
| Glow Wire Ignitability Temperature, 2.0 mm    | 850                           | °C                      | IEC 60695-2-13 |
| Oxygen Index (LOI)                            | 35                            | %                       | ISO 4589       |
| INJECTION MOLDING                             |                               |                         |                |
| Drying Temperature                            | 120                           | °C                      |                |
| Drying Time                                   | 2 – 4                         | Hrs                     |                |
| Maximum Moisture Content                      | 0.02                          | %                       |                |
| Melt Temperature                              | 280 – 300                     | °C                      |                |
| Nozzle Temperature                            | 270 – 290                     | °C                      |                |
| Front - Zone 3 Temperature                    | 280 – 300                     | °C                      |                |
| Middle - Zone 2 Temperature                   | 270 – 290                     | °C                      |                |
| Rear - Zone 1 Temperature                     | 260 – 280                     | °C                      |                |
| Hopper Temperature                            | 60 – 80                       | °C                      |                |
| Mold Temperature                              | 80 – 100                      | °C                      |                |

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