

## LEXANT™ FR RESINS 3492R

REGION EUROPE

### DESCRIPTION

LEXANT™ 3492R resin is a 20% glass filled polycarbonate, MVR of 7. Mold release. Non-chlorinated, non-brominated flame retardant, UL94 V0 and 5VA rated. No PFAS intentionally added. Available in various opaque colors.

### TYPICAL PROPERTY VALUES

Revision 20260423

| PROPERTIES                             | TYPICAL VALUES            | UNITS      | TEST METHODS   |
|----------------------------------------|---------------------------|------------|----------------|
| <b>MECHANICAL</b>                      |                           |            |                |
| Tensile Stress, yield, 5 mm/min        | 93                        | MPa        | ISO 527        |
| Tensile Stress, break                  | No yield (hard & brittle) | MPa        | ISO 527        |
| Tensile Strain, break, 5 mm/min        | 2.6                       | %          | ISO 527        |
| Tensile Modulus, 1 mm/min              | 5800                      | MPa        | ISO 527        |
| Flexural Stress, yield, 2 mm/min       | 140                       | MPa        | ISO 178        |
| Flexural Modulus, 2 mm/min             | 5500                      | MPa        | ISO 178        |
| <b>IMPACT</b>                          |                           |            |                |
| Izod Impact, notched 80°10°3 +23°C     | 7                         | kJ/m²      | ISO 180/1A     |
| Izod Impact, unnotched 80°10°3 +23°C   | 57                        | kJ/m²      | ISO 180/1U     |
| Izod Impact, notched, 23°C             | 110                       | J/m        | ASTM D256      |
| Izod Impact, unnotched, 23°C           | 873                       | J/m        | ASTM D4812     |
| <b>THERMAL</b>                         |                           |            |                |
| Vicat Softening Temp, Rate B/120       | 148                       | °C         | ISO 306        |
| HDT/Af, 1.8 MPa Flatw 80°10°4 sp=64mm  | 136                       | °C         | ISO 75/Af      |
| HDT/Bf, 0.45 MPa Flatw 80°10°4 sp=64mm | 141                       | °C         | ISO 75/Bf      |
| CTE, 23°C to 80°C, flow                | 3.00E-05                  | 1/°C       | ISO 11359-2    |
| CTE, 23°C to 80°C, xflow               | 7.00E-05                  | 1/°C       | ISO 11359-2    |
| CTE, -40°C to 40°C, flow               | 3.00E-05                  | 1/°C       | ASTM E831      |
| CTE, -40°C to 40°C, xflow              | 7.00E-05                  | 1/°C       | ASTM E831      |
| Relative Temp Index, Elec              | 80                        | °C         | UL 746B        |
| Relative Temp Index, Mech w/impact     | 80                        | °C         | UL 746B        |
| Relative Temp Index, Mech w/o impact   | 80                        | °C         | UL 746B        |
| Ball Pressure Test, 125°C +/- 2°C      | PASS                      | -          | IEC 60695-10-2 |
| <b>PHYSICAL</b>                        |                           |            |                |
| Density                                | 1.3                       | g/cm³      | ISO 1183       |
| Melt Volume Rate, MVR at 300°C/1.2 kg  | 7                         | cm³/10 min | ISO 1133       |
| Moisture Absorption (23°C / 50% RH)    | 0.12                      | %          | ISO 62         |
| Water Absorption, (23°C/saturated)     | 0.29                      | %          | ISO 62-1       |
| Mold Shrinkage, flow, 24 hrs           | 0.2 – 0.5                 | %          | ISO 294        |
| Mold Shrinkage, xflow, 24 hrs          | 0.2 – 0.5                 | %          | ISO 294        |
| Specific Gravity                       | 1.3                       | -          | ASTM D792      |
| <b>ELECTRICAL</b>                      |                           |            |                |
| Hot-wire Ignition, 0.8 mm              | 3                         | PLC Code   | UL 746A        |
| Hot-wire Ignition, 1.5 mm              | 2                         | PLC Code   | UL 746A        |

© 2026 Copyright by SABIC. All rights reserved

CHEMISTRY THAT MATTERS™



| PROPERTIES                                 | TYPICAL VALUES                  | UNITS    | TEST METHODS   |
|--------------------------------------------|---------------------------------|----------|----------------|
| Hot-wire Ignition, 3.0 mm                  | 1                               | PLC Code | UL 746A        |
| High Amp Arc Ignition, 0.8 mm              | 0                               | PLC Code | UL 746A        |
| High Amp Arc Ignition, 1.5 mm              | 0                               | PLC Code | UL 746A        |
| High Amp Arc Ignition, 3.0 mm              | 0                               | PLC Code | UL 746A        |
| Comparative Tracking Index                 | 150                             | V        | IEC 60112      |
| FLAME CHARACTERISTICS                      |                                 |          |                |
| UL Yellow Card Link                        | <a href="#">E45329-10248477</a> | -        | -              |
| UL Recognized, 94V-0 Flame Class Rating    | 1.5                             | mm       | UL 94          |
| UL Recognized, 94V-2 Flame Class Rating    | 0.8                             | mm       | UL 94          |
| UL Recognized, 94-5VA Flame Class Rating   | 3                               | mm       | UL 94          |
| Glow Wire Flammability Index, 0.8 mm       | 960                             | °C       | IEC 60695-2-12 |
| Glow Wire Flammability Index, 1.5 mm       | 960                             | °C       | IEC 60695-2-12 |
| Glow Wire Flammability Index, 2.0 mm       | 960                             | °C       | IEC 60695-2-12 |
| Glow Wire Flammability Index, 3.0 mm       | 960                             | °C       | IEC 60695-2-12 |
| Glow Wire Ignitability Temperature, 0.8 mm | 875                             | °C       | IEC 60695-2-13 |
| Glow Wire Ignitability Temperature, 1.5 mm | 850                             | °C       | IEC 60695-2-13 |
| Glow Wire Ignitability Temperature, 2.0 mm | 850                             | °C       | IEC 60695-2-13 |
| Glow Wire Ignitability Temperature, 3.0 mm | 875                             | °C       | IEC 60695-2-13 |
| INJECTION MOLDING                          |                                 |          |                |
| Drying Temperature                         | 120                             | °C       |                |
| Drying Time                                | 3 – 4                           | Hrs      |                |
| Drying Time (Cumulative)                   | 48                              | Hrs      |                |
| Maximum Moisture Content                   | 0.02                            | %        |                |
| Melt Temperature                           | 270 – 310                       | °C       |                |
| Nozzle Temperature                         | 260 – 305                       | °C       |                |
| Front - Zone 2 Temperature                 | 270 – 310                       | °C       |                |
| Middle - Zone 2 Temperature                | 265 – 300                       | °C       |                |
| Rear - Zone 1 Temperature                  | 255 – 290                       | °C       |                |
| Mold Temperature                           | 70 – 95                         | °C       |                |
| Back Pressure                              | 0.5                             | MPa      |                |
| Screw Speed                                | 100                             | rpm      |                |
| Shot to Cylinder Size                      | 40 – 60                         | %        |                |
| Vent Depth                                 | 0.025 – 0.076                   | mm       |                |

#### DISCLAIMER

Any sale by SABIC, its subsidiaries and affiliates (each a "seller"), is made exclusively under seller's standard conditions of sale (available upon request) unless agreed otherwise in writing and signed on behalf of the seller. While the information contained herein is given in good faith, SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY AND NON-INFRINGEMENT OF INTELLECTUAL PROPERTY, NOR ASSUMES ANY LIABILITY, DIRECT OR INDIRECT, WITH RESPECT TO THE PERFORMANCE, SUITABILITY OR FITNESS FOR INTENDED USE OR PURPOSE OF THESE PRODUCTS IN ANY APPLICATION. Each customer must determine the suitability of seller materials for the customer's particular use through appropriate testing and analysis. No statement by seller concerning a possible use of any product, service or design is intended, or should be construed, to grant any license under any patent or other intellectual property right.

