



# LEXANT™ FR RESINS 925AU

REGION AMERICAS

## DESCRIPTION

LEXANT™ 925AU resin is a 13 MFR polycarbonate, MVR of 13. UV stabilized. Mold release. Non-chlorinated, non-brominated flame retardant, UL94 V0 rated. UL746C f1 rated. Available in transparent and translucent colors.

| INDUSTRY                   | SUB INDUSTRY                                                                        |
|----------------------------|-------------------------------------------------------------------------------------|
| Building and Construction  | Water Management                                                                    |
| Consumer                   | Home Appliances, Personal Recreation, Commercial Appliance                          |
| Electrical and Electronics | Electrical Devices and Displays, Lighting, Electrical Components and Infrastructure |
| Hygiene and Healthcare     | Patient Testing, Medical Facility Infrastructure                                    |
| Mass Transportation        | Specialty Vehicles                                                                  |

## TYPICAL PROPERTY VALUES

Revision 20260205

| PROPERTIES                                   | TYPICAL VALUES | UNITS    | TEST METHODS |
|----------------------------------------------|----------------|----------|--------------|
| MECHANICAL                                   |                |          |              |
| Tensile Stress, yld, Type I, 50 mm/min       | 62             | MPa      | ASTM D638    |
| Tensile Stress, brk, Type I, 50 mm/min       | 67             | MPa      | ASTM D638    |
| Tensile Strain, yld, Type I, 50 mm/min       | 6              | %        | ASTM D638    |
| Tensile Strain, brk, Type I, 50 mm/min       | 125            | %        | ASTM D638    |
| Tensile Modulus, 50 mm/min                   | 2270           | MPa      | ASTM D638    |
| Flexural Stress, yld, 1.3 mm/min, 50 mm span | 101            | MPa      | ASTM D790    |
| Flexural Modulus, 1.3 mm/min, 50 mm span     | 2370           | MPa      | ASTM D790    |
| IMPACT                                       |                |          |              |
| Izod Impact, notched, 23°C                   | 801            | J/m      | ASTM D256    |
| Instrumented Dart Impact Total Energy, 23°C  | 79             | J        | ASTM D3763   |
| THERMAL                                      |                |          |              |
| Vicat Softening Temp, Rate B/50              | 143            | °C       | ASTM D1525   |
| HDT, 0.45 MPa, 3.2 mm, unannealed            | 137            | °C       | ASTM D648    |
| HDT, 1.82 MPa, 3.2mm, unannealed             | 126            | °C       | ASTM D648    |
| CTE, -40°C to 40°C, flow                     | 6.84E-05       | 1/°C     | ASTM E831    |
| CTE, -40°C to 40°C, xflow                    | 7.38E-05       | 1/°C     | ASTM E831    |
| 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      |
| PHYSICAL                                     |                |          |              |
| Specific Gravity                             | 1.19           | -        | ASTM D792    |
| Mold Shrinkage, flow, 3.2 mm                 | 0.6 – 0.8      | %        | SABIC method |
| Melt Flow Rate, 300°C/ 1.2 kgf               | 13             | g/10 min | ASTM D1238   |
| ELECTRICAL                                   |                |          |              |
| Arc Resistance, Tungsten {PLC}               | 7              | PLC Code | ASTM D495    |
| Hot Wire Ignition {PLC}                      | 2              | PLC Code | UL 746A      |



| PROPERTIES                                    | TYPICAL VALUES        | UNITS    | TEST METHODS   |
|-----------------------------------------------|-----------------------|----------|----------------|
| High Voltage Arc Track Rate {PLC}             | 3                     | PLC Code | UL 746A        |
| High Ampere Arc Ign, surface {PLC}            | 2                     | PLC Code | UL 746A        |
| Comparative Tracking Index (UL) {PLC}         | 2                     | PLC Code | UL 746A        |
| Comparative Tracking Index                    | 275                   | V        | IEC 60112      |
| FLAME CHARACTERISTICS                         |                       |          |                |
| UL Yellow Card Link                           | <u>E121562-220902</u> | -        | -              |
| UL Yellow Card Link 2                         | <u>E121562-499085</u> | -        | -              |
| UL Recognized, 94V-2 Flame Class Rating       | 0.8                   | mm       | UL 94          |
| UL Recognized, 94V-0 Flame Class Rating       | 3.0                   | mm       | UL 94          |
| Glow Wire Flammability Index 960°C, passes at | 1                     | mm       | IEC 60695-2-12 |
| Glow Wire Ignitability Temperature, 1.0 mm    | 850                   | °C       | IEC 60695-2-13 |
| UV-light, water exposure/immersion            | F1                    | -        | UL 746C        |
| INJECTION MOLDING                             |                       |          |                |
| Drying Temperature                            | 120                   | °C       |                |
| Drying Time                                   | 2 – 4                 | Hrs      |                |
| Maximum Moisture Content                      | 0.02                  | %        |                |
| Melt Temperature                              | 280 – 310             | °C       |                |
| Nozzle Temperature                            | 270 – 290             | °C       |                |
| Front - Zone 3 Temperature                    | 280 – 310             | °C       |                |
| Middle - Zone 2 Temperature                   | 270 – 290             | °C       |                |
| Rear - Zone 1 Temperature                     | 260 – 280             | °C       |                |
| Hopper Temperature                            | 60 – 80               | °C       |                |
| Mold Temperature                              | 80 – 110              | °C       |                |

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