

## LEXANT™ FR RESINS 955

REGION AMERICAS

### DESCRIPTION

LEXANT™ 955 resin is a 7 MFR polycarbonate, MVR of 7. Mold release. Non-chlorinated, non-brominated flame retardant, UL94 V0 and 5VA rated. Available in opaque colors.

### TYPICAL PROPERTY VALUES

Revision 20260508

| PROPERTIES                                    | TYPICAL VALUES | UNITS    | TEST METHODS   |
|-----------------------------------------------|----------------|----------|----------------|
| <b>MECHANICAL</b>                             |                |          |                |
| Tensile Stress, yld, Type I, 50 mm/min        | 62             | MPa      | ASTM D638      |
| Tensile Stress, brk, Type I, 50 mm/min        | 65             | MPa      | ASTM D638      |
| Tensile Strain, yld, Type I, 50 mm/min        | 6.4            | %        | 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      | 2340           | MPa      | ASTM D790      |
| <b>IMPACT</b>                                 |                |          |                |
| Izod Impact, notched, 23°C                    | 801            | J/m      | ASTM D256      |
| Instrumented Dart Impact Total Energy, 23°C   | 73             | J        | ASTM D3763     |
| <b>THERMAL</b>                                |                |          |                |
| 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                      | 6.66E-05       | 1/°C     | ASTM E831      |
| CTE, -40°C to 40°C, xflow                     | 6.66E-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        |
| <b>PHYSICAL</b>                               |                |          |                |
| 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                 | 7              | g/10 min | ASTM D1238     |
| <b>ELECTRICAL</b>                             |                |          |                |
| Arc Resistance, Tungsten {PLC}                | 7              | PLC Code | ASTM D495      |
| Hot Wire Ignition {PLC}                       | 2              | PLC Code | UL 746A        |
| High Voltage Arc Track Rate {PLC}             | 4              | PLC Code | UL 746A        |
| High Ampere Arc Ign, surface {PLC}            | 3              | PLC Code | UL 746A        |
| Comparative Tracking Index (UL) {PLC}         | 2              | PLC Code | UL 746A        |
| <b>FLAME CHARACTERISTICS</b>                  |                |          |                |
| UL Recognized, 94V-2 Flame Class Rating       | 0.8            | mm       | UL 94          |
| UL Recognized, 94V-0 Flame Class Rating       | 1.5            | mm       | UL 94          |
| UL Recognized, 94-5VA Flame Class Rating      | 3.0            | mm       | UL 94          |
| Glow Wire Flammability Index 960°C, passes at | 1              | mm       | IEC 60695-2-12 |

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CHEMISTRY THAT MATTERS™



| PROPERTIES                                 | TYPICAL VALUES | UNITS | TEST METHODS   |
|--------------------------------------------|----------------|-------|----------------|
| Glow Wire Ignitability Temperature, 1.0 mm | 850            | °C    | IEC 60695-2-13 |
| <b>INJECTION MOLDING</b>                   |                |       |                |
| Drying Temperature                         | 120            | °C    |                |
| Drying Time                                | 3 – 4          | Hrs   |                |
| Drying Time (Cumulative)                   | 48             | Hrs   |                |
| Maximum Moisture Content                   | 0.02           | %     |                |
| Melt Temperature                           | 310 – 330      | °C    |                |
| Nozzle Temperature                         | 305 – 325      | °C    |                |
| Front - Zone 3 Temperature                 | 310 – 330      | °C    |                |
| Middle - Zone 2 Temperature                | 300 – 320      | °C    |                |
| Rear - Zone 1 Temperature                  | 290 – 310      | °C    |                |
| Mold Temperature                           | 80 – 115       | °C    |                |
| Back Pressure                              | 0.3 – 0.7      | MPa   |                |
| Screw Speed                                | 40 – 70        | rpm   |                |
| Shot to Cylinder Size                      | 40 – 60        | %     |                |
| Vent Depth                                 | 0.025 – 0.076  | mm    |                |

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