



**VALOX™ Resin 364**  
**Americas: COMMERCIAL**

Designed for outdoor telecommunications enclosure applications.

| TYPICAL PROPERTIES <sup>1</sup>              | TYPICAL VALUE | Unit                | Standard    |
|----------------------------------------------|---------------|---------------------|-------------|
| <b>MECHANICAL</b>                            |               |                     |             |
| Tensile Stress, yld, Type I, 50 mm/min       | 470           | kgf/cm <sup>2</sup> | ASTM D 638  |
| Tensile Stress, brk, Type I, 50 mm/min       | 400           | kgf/cm <sup>2</sup> | ASTM D 638  |
| Tensile Strain, yld, Type I, 50 mm/min       | 5             | %                   | ASTM D 638  |
| Tensile Strain, brk, Type I, 50 mm/min       | 70            | %                   | ASTM D 638  |
| Flexural Stress, yld, 1.3 mm/min, 50 mm span | 680           | kgf/cm <sup>2</sup> | ASTM D 790  |
| Flexural Modulus, 1.3 mm/min, 50 mm span     | 18900         | kgf/cm <sup>2</sup> | ASTM D 790  |
| <b>IMPACT</b>                                |               |                     |             |
| Izod Impact, notched, 23°C                   | 76            | cm-kgf/cm           | ASTM D 256  |
| Izod Impact, notched, -20°C                  | 70            | cm-kgf/cm           | ASTM D 256  |
| Izod Impact, notched, -40°C                  | 43            | cm-kgf/cm           | ASTM D 256  |
| Instrumented Impact Total Energy, 23°C       | 460           | cm-kgf              | ASTM D 3763 |
| Instrumented Impact Total Energy, -20°C      | 456           | cm-kgf              | ASTM D 3763 |
| Instrumented Impact Total Energy, -40°C      | 483           | cm-kgf              | ASTM D 3763 |
| <b>THERMAL</b>                               |               |                     |             |
| Vicat Softening Temp, Rate B/50              | 115           | °C                  | ASTM D 1525 |
| HDT, 0.45 MPa, 3.2 mm, unannealed            | 103           | °C                  | ASTM D 648  |
| HDT, 1.82 MPa, 3.2mm, unannealed             | 68            | °C                  | ASTM D 648  |
| CTE, -40°C to 40°C, flow                     | 9.5E-05       | 1/°C                | ASTM E 831  |
| CTE, -40°C to 40°C, xflow                    | 9.8E-05       | 1/°C                | ASTM E 831  |
| CTE, -40°C to 40°C, flow                     | 9.5E-05       | 1/°C                | ISO 11359-2 |
| CTE, -40°C to 40°C, xflow                    | 1.E-04        | 1/°C                | ISO 11359-2 |
| Vicat Softening Temp, Rate B/120             | 122           | °C                  | ISO 306     |
| Relative Temp Index, Elec                    | 75            | °C                  | UL 746B     |



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| <b>THERMAL</b>                              |               |          |              |
| Relative Temp Index, Mech w/impact          | 75            | °C       | UL 746B      |
| Relative Temp Index, Mech w/o impact        | 75            | °C       | UL 746B      |
| <b>PHYSICAL</b>                             |               |          |              |
| Specific Gravity                            | 1.3           | -        | ASTM D 792   |
| Mold Shrinkage, flow, 3.2 mm (5)            | 0.8 - 1       | %        | SABIC Method |
| Mold Shrinkage, xflow, 3.2 mm (5)           | 0.8 - 1       | %        | SABIC Method |
| <b>ELECTRICAL</b>                           |               |          |              |
| Arc Resistance, Tungsten {PLC}              | 5             | PLC Code | ASTM D 495   |
| Hot Wire Ignition {PLC}                     | 2             | PLC Code | UL 746A      |
| High Voltage Arc Track Rate {PLC}           | 2             | PLC Code | UL 746A      |
| High Ampere Arc Ign, surface {PLC}          | 0             | PLC Code | UL 746A      |
| Comparative Tracking Index (UL) {PLC}       | 0             | PLC Code | UL 746A      |
| <b>FLAME CHARACTERISTICS</b>                |               |          |              |
| UL Recognized, 94V-0 Flame Class Rating (3) | 1.47          | mm       | UL 94        |
| UL Recognized, 94-5VA Rating (3)            | 2.99          | mm       | UL 94        |
| Oxygen Index (LOI)                          | 28            | %        | ASTM D 2863  |
| UV-light, water exposure/immersion          | F2            | -        | UL 746C      |



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| PROCESSING PARAMETERS       | TYPICAL VALUE | Unit |
|-----------------------------|---------------|------|
| <b>Injection Molding</b>    |               |      |
| Drying Temperature          | 120           | °C   |
| Drying Time                 | 3 - 4         | hrs  |
| Drying Time (Cumulative)    | 12            | hrs  |
| Maximum Moisture Content    | 0.02          | %    |
| Melt Temperature            | 250 - 265     | °C   |
| Nozzle Temperature          | 245 - 260     | °C   |
| Front - Zone 3 Temperature  | 250 - 265     | °C   |
| Middle - Zone 2 Temperature | 245 - 260     | °C   |
| Rear - Zone 1 Temperature   | 240 - 255     | °C   |
| Mold Temperature            | 50 - 75       | °C   |
| Back Pressure               | 0.3 - 0.7     | MPa  |
| Screw Speed                 | 50 - 100      | rpm  |
| Shot to Cylinder Size       | 40 - 80       | %    |
| Vent Depth                  | 0.025 - 0.038 | mm   |