# VALOX™ RESIN 430

REGION ASIA

## DESCRIPTION

33 % glass reinforced, impact modified. Connectors, etc.

## TYPICAL PROPERTY VALUES

Revision 20190925

| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|---|---|---|---|
| MECHANICAL | | | |
| Tensile Stress, brk, Type I, 5 mm/min | 106 | MPa | ASTM D 638 |
| Tensile Strain, brk, Type I, 5 mm/min | 3.1 | % | ASTM D 638 |
| Tensile Modulus, 5 mm/min | 8660 | MPa | ASTM D 638 |
| Flexural Stress, brk, 1.3 mm/min, 50 mm span | 174 | MPa | ASTM D 790 |
| Flexural Modulus, 1.3 mm/min, 50 mm span | 7810 | MPa | ASTM D 790 |
| Hardness, Rockwell R | 125 | - | ASTM D 785 |
| IMPACT | | | |
| Izod Impact, unnotched, 23°C | 857 | J/m | ASTM D 4812 |
| Izod Impact, notched, 23°C | 128 | J/m | ASTM D 256 |
| THERMAL | | | |
| HDT, 0.45 MPa, 6.4 mm, unannealed | 223 | °C | ASTM D 648 |
| HDT, 1.82 MPa, 6.4 mm, unannealed | 208 | °C | ASTM D 648 |
| Relative Temp Index, Elec | 130 | °C | UL 746B |
| Relative Temp Index, Mech w/impact | 130 | °C | UL 746B |
| Relative Temp Index, Mech w/o impact | 140 | °C | UL 746B |
| PHYSICAL | | | |
| Specific Gravity | 1.52 | - | ASTM D 792 |
| Specific Volume | 0.65 | cm³/g | ASTM D 792 |
| Water Absorption, 24 hours | 0.05 | % | ASTM D 570 |
| Mold Shrinkage, flow, 3.2 mm | 0.5 | % | SABIC method |
| Mold Shrinkage, flow, 1.5-3.2 mm | 0.3 – 0.5 | % | SABIC method |
| Mold Shrinkage, flow, 3.2-4.6 mm | 0.5 – 0.8 | % | SABIC method |
| Mold Shrinkage, xflow, 1.5-3.2 mm | 0.4 – 0.6 | % | SABIC method |
| Mold Shrinkage, xflow, 3.2-4.6 mm | 0.6 – 0.9 | % | SABIC method |
| Melt Flow Rate, 250°C/2.16 kgf | 11.7 | g/10 min | ASTM D 1238 |
| ELECTRICAL | | | |
| Arc Resistance, Tungsten {PLC} | 5 | PLC Code | ASTM D 495 |
| Hot Wire Ignition {PLC} | 0 | PLC Code | UL 746A |
| High Voltage Arc Track Rate {PLC} | 0 | PLC Code | UL 746A |
| High Ampere Arc Ign, surface {PLC} | 2 | PLC Code | UL 746A |
| Comparative Tracking Index (UL) {PLC} | 1 | PLC Code | UL 746A |
| FLAME CHARACTERISTICS | | | |
| UL Yellow Card Link | E207780-100140794 | - | - |
| UL Recognized, 94HB Flame Class Rating | 1.47 | mm | UL 94 |

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|---|---|---|---|
| INJECTION MOLDING | | | |
| 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 | 65 – 90 | °C | |
| Back Pressure | 0.3 – 0.7 | MPa | |
| Screw Speed | 50 – 80 | rpm | |
| Shot to Cylinder Size | 40 – 80 | % | |
| Vent Depth | 0.025 – 0.038 | mm | |

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