



TRIVALENCE

TriVEX™ 22G20 (U,R)

Polycarbonate

| General Information |
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| Product Description |
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Glass fiber reinforced polycarbonate

FEATURES

- 20% Glass Fiber Reinforced
- Great Strength
- Good Creep Resistance
- Medium Flow

ADDITIONAL FORMULAS

- Added Release "R"
- Added UV "U"

COLOR

-All

| General |
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|-----------------------------|---|
| Typical Applications | -Appliance, electrical, lawn & garden, automotive, electronic |
| Processing Method | -Injection |
| Form(s) | -Pellets |
| Availability | -North America, Europe, Asia, Latin America |

| ASTM / ISO Properties ¹ |
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|------------------------------------|

| Physical | Nominal Value | Unit | Test Method |
|----------|---------------|------|-------------|
|----------|---------------|------|-------------|

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|---|------------|-------------------|--------------------|
| Density | 1.35 | g/cm ³ | ASTM D792 |
| Melt Flow Rate (300°C/1.2kg) | 14 | g/10min | ASTM D1238 |
| Molding Shrinkage - Flow (3.2mm) | 0.2 to 0.4 | % | TVT Internal |
| Outdoor Suitability - QUV ("U" grades only) | Pass | | QUV - TVT Internal |

| Mechanical | Nominal Value | Unit | Test Method |
|------------|---------------|------|-------------|
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|-----------------------|--------|-----------|-----------|
| Tensile Strength, yld | 16,000 | psi | ASTM D638 |
| Tensile Elongation | >5 | % | ASTM D638 |
| Flexural Modulus | 790000 | psi | ASTM D790 |
| Notched Izod Impact | 2.2 | ft-lbs/in | ASTM D256 |
| Rockwell Hardness | 123 | R-Scale | ASTM D785 |

| Thermal | Nominal Value | Unit | Test Method |
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| Deflection Temperature Under Load (0.45 MPa) | 295 | °F | ASTM D648 |
| Deflection Temperature Under Load (1.8 MPa) | 280 | °F | ASTM D648 |
| Vicat Softening Temperature | 318 | °F | ASTM D1525 |
| CLTE - Flow | 1.6E-5 | in/in/°F | ASTM E831 |

| Flammability | Nominal Value | Unit | Test Method |
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| 0.06 in | HB | | UL94 TVT Internal |
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| Recommended Processing Guidance |
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|-----------------------------|------------|-------|
| Drying Temperature | 230 to 250 | °F |
| Drying Time | 3 to 6 | Hours |
| Suggested Max Moisture | 0.02 | % |
| Processing Melt Temperature | 590 to 640 | °F |
| Mold Temperature | 175 to 230 | °F |