TRIVALENCE

# TriBLEND 22FR0 (HF)

**Polycarbonate + PBT**

## General Information

### Product Description

UL certified flame retardant product is available in various melt flow ranges.

| FEATURES | | ADDITIONAL FORMULAS | COLOR |
|---|---|---|---|
| -Flame Retardant | -Chemical Resistant | -Added Release | -All |
| -High Impact | -Medium Flow | -Additional Melt Flows | -Opaque/Translucent |
| -UV Stabilized | | | |
| -High Flow | | | |
| -Weatherable | | | |

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### General

| | |
|---|---|
| **Typical Applications** | -Electrical, lawn & garden, automotive, electronics, medical devices |
| **Processing Method** | -Injection |
| **Form(s)** | -Pellets |
| **Availability** | -North America, Europe, Asia, Latin America |

## ASTM / ISO Properties[1]

| Physical | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Density | 1.28 | g/cm³ | ASTM D792 |
| Melt Flow Rate (260°C/5.0kg) | 35 | g/10min | ASTM D1238 |
| Molding Shrinkage - Flow (3.2mm) | 0.7 to 0.9 | % | TVT Internal |
| Outdoor Suitability (QUV) | Pass | | TVT Internal |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Strength, yld | 8500 | psi | ASTM D638 |
| Tensile Elongation, brk | >60 | % | ASTM D638 |
| Flexural Modulus | 310000 | psi | ASTM D790 |
| Gardner Impact | 320 | in-lbs | ASTM D5420 |
| Rockwell Hardness | 119 | R-Scale | ASTM D785 |
| **Thermal** | **Nominal Value** | **Unit** | **Test Method** |
| Deflection Temperature Under Load (0.45 MPa) | 230 | °F | ASTM D648 |
| Deflection Temperature Under Load (1.8 MPa) | 160 | °F | ASTM D648 |
| Vicat Softening Temperature | 217 | °F | ASTM D1525 |
| RTI Elec | 167 | °F | UL 746 |
| RTI IMP | 167 | °F | UL 746 |
| RTI Str | 167 | °F | UL 746 |
| CLTE - Flow | 4.6E-5 | in/in/°F | ASTM E831 |
| **Flammability** | **Nominal Value** | **Unit** | **Test Method** |
| 0.06 in | V0 | | UL94 File E494706 |
| 0.10 in | V0 | | UL94 File E494706 |
| **Recommended Processing Guidance** | | | |
| Drying Temperature | 220 to 250 | °F | |
| Drying Time | 3 to 6 | Hours | |
| Suggested Max Moisture | 0.02 | % | |
| Processing Melt Temperature | 480 to 510 | °F | |
| Mold Temperature | 150 to 190 | °F | |