



TRIVALENCE

TriVET 14BP (U,R)

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Polybutylene Terephthalate + PC

General Information

Product Description

PBT + PC, impact modified

FEATURES

- Superior Impact (Ambient and Cold)
- Chemical Resistance
- RoHS/REACH Compliant
- Low to Medium Flow

ADDITIONAL FORMULAS

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

COLOR

-All

General

Typical Applications

-Appliance, electrical, lawn & garden, transportation

Processing Method

-Injection/Extrusion

Form(s)

-Pellets

Availability

-North America, Europe, Latin America

ASTM / ISO Properties¹

| Physical | Nominal Value | Unit | Test Method |
|--|---------------|-------------------|--------------------|
| Density | 1.21 | g/cm ³ | ASTM D792 |
| Melt Flow Rate (260°C/2.16kg) | 10 | g/10min | ASTM D1238 |
| Molding Shrinkage - Flow (3.2mm) | 1.5 to 1.8 | % | ASTM D955 |
| Outdoor Suitability - QUV ("U" grades only) | Pass | | QUV - TVT Internal |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength, yld | 6,400 | psi | ASTM D638 |
| Tensile Elongation | >160 | % | ASTM D638 |
| Flexural Modulus | 260,000 | psi | ASTM D790 |
| Notched Izod Impact, 73F | 15.0 | ft-lb/in | ASTM D256 |
| Notched Izod Impact, -22F | 10.0 | ft-lb/in | ASTM D256 |
| Rockwell Hardness | 110.0 | R-Scale | ASTM D785 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (0.45 MPa) | 195 | °F | ASTM D648 |
| Deflection Temperature Under Load (1.8 MPa) | 122 | °F | ASTM D648 |
| CLTE - Flow | 5.1E-5 | in/in/°F | ASTM E831 |
| Flammability | Nominal Value | Unit | Test Method |
| 0.06 in | HB | | UL94 TVT Internal |
| Recommended Processing Guidance | | | |
| Drying Temperature | 220 to 240 | °F | |
| Drying Time | 3 to 6 | Hours | |
| Suggested Max Moisture | 0.02 | % | |
| Processing Melt Temperature | 470 to 510 | °F | |
| Mold Temperature | 120 to 170 | °F | |

¹ Note: The values listed on this guide are typical values based on general molding conditions and used solely for the purpose of general material processing. It is recommended that application properties be derived from actual molded articles, whereas properties as molded could vary. These are not to be used as specifications. This data does not provide an implied conditional warranty.