



TRIVALENCE

# TriVALOY 23P

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## Polycarbonate + ABS

### General Information

#### Product Description

Polycarbonate + ABS with high impact and medium flow. Paintable and Plateable.

#### FEATURES

- Paintable/Plateable
- High Impact
- Chemical Resistant
- ROHS/REACH Compliant
- Medium Flow

#### ADDITIONAL FORMULAS

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

#### COLOR

- All
- Opaque/Translucent

#### General

##### Typical Applications

-Appliance, lawn & garden, automotive, electronics, medical devices, spools, housings

##### Processing Method

-Injection

##### Form(s)

-Pellets

##### Availability

-North America, Europe, Asia, Latin America

### ASTM / ISO Properties<sup>1</sup>

#### Physical

|                                  | Nominal Value | Unit              | Test Method  |
|----------------------------------|---------------|-------------------|--------------|
| Density                          | 1.14          | g/cm <sup>3</sup> | ASTM D792    |
| Melt Flow Rate (260°C/5.0kg)     | 22            | g/10min           | ASTM D1238   |
| Molding Shrinkage - Flow (3.2mm) | 0.5 to 0.7    | %                 | TVT Internal |
| Outdoor Suitability (QUV)        | Pass          |                   | TVT Internal |

#### Mechanical

|                         | Nominal Value | Unit      | Test Method |
|-------------------------|---------------|-----------|-------------|
| Tensile Strength, yld   | 7500          | psi       | ASTM D638   |
| Tensile Elongation, brk | 120           | %         | ASTM D638   |
| Flexural Modulus        | 330000        | psi       | ASTM D790   |
| Gardner Impact          | 320           | in-lbs    | ASTM D5420  |
| Notched Izod Impact     | 12            | ft-lbs/in | ASTM D256   |
| Rockwell Hardness       | 117           | R-Scale   | ASTM D785   |

#### Thermal

|  | Nominal Value | Unit     | Test Method |
|--|---------------|----------|-------------|
| Deflection Temperature Under Load (0.45 MPa) | 250           | °F       | ASTM D648   |
| Deflection Temperature Under Load (1.8 MPa)  | 218           | °F       | ASTM D648   |
| Vicat Softening Temperature                  | 260           | °F       | ASTM D1525  |
| CLTE - Flow                                  | 3.9E-5        | in/in/°F | ASTM E831   |

#### Flammability

|         | Nominal Value | Unit | Test Method       |
|---------|---------------|------|-------------------|
| 0.06 in | HB            |      | UL94 TVT Internal |

#### Recommended Processing Guidance

|                             |            |       |
|-----------------------------|------------|-------|
| Drying Temperature          | 180 to 215 | °F    |
| Drying Time                 | 2 to 4     | Hours |
| Suggested Max Moisture      | 0.02       | %     |
| Processing Melt Temperature | 480 to 540 | °F    |
| Mold Temperature            | 135 to 185 | °F    |

<sup>1</sup> 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.