



**TRIVALENCE**

# TriVALOY 12EG (U,R)

**Polycarbonate + ABS**

## General Information

### Product Description

Polycarbonate + ABS, extrusion and blow molding grade.

#### FEATURES

- Low Flow
- Great Impact
- Chemical Resistant
- ROHS/REACH Compliant

#### 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/Extrusion

#### Form(s)

-Pellets

#### Availability

-North America, Europe, Asia, Latin America

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

| Physical                                     | Nominal Value | Unit              | Test Method       |
|--|---------------|-------------------|-------------------|
| Density                                      | 1.16          | g/cm <sup>3</sup> | ASTM D792         |
| Melt Flow Rate (230°C/3.8 kg)                | 4             | g/10min           | ASTM D1238        |
| Molding Shrinkage - Flow (3.2mm)             | 0.4 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                      | 100           | %                 | ASTM D638         |
| Flexural Modulus                             | 300000        | psi               | ASTM D790         |
| Gardner Impact                               | 320           | in-lbs            | ASTM D5420        |
| Notched Izod Impact                          | 10            | 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) | 252           | °F                | ASTM D648         |
| Deflection Temperature Under Load (1.8 MPa)  | 220           | °F                | ASTM D648         |
| Vicat Softening Temperature                  | 248           | °F                | ASTM D1525        |
| CLTE - Flow                                  | 4.1E-5        | in/in/°F          | ASTM E831         |
| Flammability                                 | Nominal Value | Unit              | Test Method       |
| 0.06 in                                      | HB            |                   | UL94 TVT Internal |
| Recommended Processing Guidance              |               |                   |                   |
| Drying Temperature                           | 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                |                   |