

**TriVEX™ 13G20 (U,R)** 

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## **Polycarbonate**

## **General Information**

## **Product Description**

Glass fiber reinforced polycarbonate, impact modified

**FEATURES** 

ADDITIONAL FORMULAS

COLOR

-20% Glass Fiber Reinforced

-Added Release "R"

-All

-Great Strength -Good Impact

-Added UV "U"

-Good Creep Resistance

-Low Flow

General

Typical Applications

-Appliance, electrical, lawn & garden, automotive, electronic

**Processing Method** 

-Injection/Extrusion

-Pellets

Form(s) Availability

-North America, Europe, Asia, Latin America

| ASTM / ISO Properties <sup>1</sup>           |                        |                    |
|--|------------------------|--------------------|
| Physical                                     | Nominal Value Unit     | Test Method        |
| Density                                      | 1.35 g/cm <sup>3</sup> | ASTM D792          |
| Melt Flow Rate (300°C/1.2kg)                 | 6 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        |
| Tensile Strength, yld                        | 15,800 psi             | ASTM D638          |
| Tensile Elongation                           | >8 %                   | ASTM D638          |
| Flexural Modulus                             | 750000 psi             | ASTM D790          |
| Notched Izod Impact                          | 3.5 ft-lbs/in          | ASTM D256          |
| Rockwell Hardness                            | 121 R-Scale            | ASTM D785          |
| Thermal                                      | Nominal Value Unit     | Test Method        |
| 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        |
| 0.06 in                                      | НВ                     | UL94 TVT Internal  |
| Recommended Processing Guidance              |                        |                    |

## **Recommended Processing Guidance**

Drying Temperature230 to 250 °FDrying Time3 to 6 HoursSuggested Max Moisture0.02 %Processing Melt Temperature590 to 640 °FMold Temperature175 to 230 °F

<sup>1</sup> Note: I ne 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.