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**TRIVALENCE**

# TriVOL 12G40C (8M, 12M, 20M)

trivalancetechnologies.com

## Polypropylene

Product Description	General Information
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UL certified HB copolymer PP product is available in melt flow ranges of 8 - 20. Glass reinforced.

**FEATURES**

- HB -RoHS/REACH Compliant
- Copolymer
- Chemically Coupled
- 40% Glass Reinforced

**ADDITIONAL FORMULAS**

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

**COLOR**

-All



**General**

- |                             |  |
|-----------------------------|--|
| <b>Typical Applications</b> | -Appliance, electrical, lawn & garden, automotive, packaging, industrial |
| <b>Processing Method</b>    | -Injection   |
| <b>Form(s)</b>              | -Pellets   |
| <b>Availability</b>         | -North America, Europe, Asia, Latin America                              |

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

Physical	Nominal Value Unit	Test Method
Density	1.24 g/cm <sup>3</sup>	ASTM D792
Melt Flow Rate (230°C/2.16kg)	(8, 12, or 20) g/10min	ASTM D1238
Molding Shrinkage - Flow (3.2mm)	0.2 to 0.5 %	TVT Internal
Outdoor Suitability (QUV) ("U" grades)	Pass	TVT Internal
Mechanical	Nominal Value Unit	Test Method
Tensile Strength, brk	12000 psi	ASTM D638
Tensile Elongation	>3.0 %	ASTM D638
Flexural Modulus	1000000 psi	ASTM D790
Notched Izod Impact	2.4 ft-lbs/in	ASTM D256
Shore Hardness	75 D-Scale	ASTM D785
Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load (0.45 MPa)	316 °F	ASTM D648
Deflection Temperature Under Load (1.8 MPa)	292 °F	ASTM D648
RTI Elec	149 °F	UL 746
RTI IMP	149 °F	UL 746
RTI Str	149 °F	UL 746
Flammability	Nominal Value Unit	Test Method
0.06 in	HB	UL94 File E494706
Recommended Processing Guidance	Nominal Value Unit	
Drying Temperature	140-180 °F	
Drying Time	1 to 3 Hours	
Suggested Max Moisture	0.05 %	
Processing Melt Temperature	400 to 460 °F	
Mold Temperature	80 to 140 °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.