

# 3M™ Dyneon™ Fluoroplastic THV 610GZ

Fluoroelastomer

3M Advanced Materials Division

Message:

Dyneon™ THV 610G Z Fluorothermoplastic extends the melting point of THV grades to include those applications which require higher temperature service capabilities than that available from other THV grades. This grade provides good flexibility versus other Fluoroplastics, but it is stiffer than the other grades of THV as the data below shows. This grade is available in pellet (G designation) form.

| General Information       |                          |          |             |
|---------------------------|--------------------------|----------|-------------|
| Features                  | Bondability              |          |             |
|                           | Good Chemical Resistance |          |             |
|                           | Good Flexibility         |          |             |
|                           | Good UV Resistance       |          |             |
| Forms                     | Pellets                  |          |             |
| Physical                  | Nominal Value            | Unit     | Test Method |
| Density                   | 2.04                     | g/cm³    | ISO 12086   |
| Melt Mass-Flow Rate (MFR) | 10                       | g/10 min | ISO 1133    |
| Mechanical                | Nominal Value            | Unit     | Test Method |
| Tensile Stress (Break)    | 28.0                     | MPa      | ISO 527-1   |
| Tensile Strain (Break)    | 500                      | %        | ISO 527-1   |
| Flexural Modulus          | 490                      | MPa      | ASTM D790   |
| Thermal                   | Nominal Value            | Unit     | Test Method |
| Melting Temperature       | 185                      | °C       | ISO 12086   |
| Flammability              | Nominal Value            | Unit     | Test Method |
| Oxygen Index              | > 75                     | %        | ASTM D2863  |

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