

# DiaAlloy TE-554G

Polyphenylene Ether

Mitsubishi Rayon America Inc.

Message:

DiaAlloy TE-554G is a Polyphenylene Ether (PPE) material filled with glass fiber. It is available in North America.

Important attributes of DiaAlloy TE-554G are:

Flame Rated

Heat Resistant

Impact Resistant

Typical applications include:

Automotive

Engineering/Industrial Parts

| General Information         |                            |                   |             |
|-----------------------------|----------------------------|-------------------|-------------|
| Filler / Reinforcement      | Glass Fiber                |                   |             |
| Features                    | Good Heat Aging Resistance |                   |             |
|                             | Good Impact Resistance     |                   |             |
|                             | High Heat Resistance       |                   |             |
| Uses                        | Automotive Applications    |                   |             |
|                             | Pump Parts                 |                   |             |
| UL File Number              | E85500                     |                   |             |
| Forms                       | Pellets                    |                   |             |
| Physical                    | Nominal Value              | Unit              | Test Method |
| Specific Gravity            | 1.21                       | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow    | 0.30                       | %                 | ASTM D955   |
| Water Absorption (24 hr)    | 0.10                       | %                 | ASTM D570   |
| Hardness                    | Nominal Value              | Unit              | Test Method |
| Rockwell Hardness (R-Scale) | 120                        |                   | ASTM D785   |
| Mechanical                  | Nominal Value              | Unit              | Test Method |
| Tensile Strength (Yield)    | 98.0                       | MPa               | ASTM D638   |
| Tensile Elongation (Yield)  | 4.0                        | %                 | ASTM D638   |
| Flexural Modulus            | 5290                       | MPa               | ASTM D790   |
| Flexural Strength (Yield)   | 162                        | MPa               | ASTM D790   |
| Impact                      | Nominal Value              | Unit              | Test Method |
| Notched Izod Impact         |                            |                   | ASTM D256   |
| -40°C                       | 70                         | J/m               |             |
| -30°C                       | 80                         | J/m               |             |
| 23°C                        | 110                        | J/m               |             |
| Unnotched Izod Impact       |                            |                   | ASTM D256   |
| -40°C                       | 70                         | J/m               |             |

| 23°C                              | 110           | J/m      |             |
|-----------------------------------|---------------|----------|-------------|
| Thermal                           | Nominal Value | Unit     | Test Method |
| Deflection Temperature Under Load |               |          | ASTM D648   |
| 0.45 MPa, Unannealed              | 150           | °C       |             |
| 1.8 MPa, Unannealed               | 140           | °C       |             |
| Melting Temperature               | 260 to 310    | °C       |             |
| CLTE - Flow                       | 4.0E-5        | cm/cm/°C | ASTM D696   |
| Flammability                      | Nominal Value |          | Test Method |
| Flame Rating (1.59 mm)            | HB            |          | UL 94       |

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