

# Garaflex™ G 7795-A7 NAT

Thermoplastic Elastomer

AlphaGary

Message:

GARAFLEX G 7795-A7 IS A FLAME RETARDANT THERMOPLASTIC ELASTOMER INTENDED FOR APPLIANCE AND AUTOMOTIVE WIRING (125C DEGREE).

| General Information                               |                           |                   |                |
|---------------------------------------------------|---------------------------|-------------------|----------------|
| Features                                          | Flame Retardant           |                   |                |
| Uses                                              | Appliance Wire Insulation |                   |                |
|                                                   | Wire Jacketing            |                   |                |
| RoHS Compliance                                   | Contact Manufacturer      |                   |                |
| Appearance                                        | Natural Color             |                   |                |
| Forms                                             | Pellets                   |                   |                |
| Processing Method                                 | Extrusion                 |                   |                |
| Physical                                          | Nominal Value             | Unit              | Test Method    |
| Specific Gravity                                  | 1.17 to 1.21              | g/cm <sup>3</sup> | ASTM D792      |
| Hardness                                          | Nominal Value             | Unit              | Test Method    |
| Durometer Hardness                                |                           |                   | ASTM D2240     |
| Shore D                                           | 48                        |                   |                |
| Shore D, 15 sec                                   | 44                        |                   |                |
| Elastomers                                        | Nominal Value             | Unit              | Test Method    |
| Tensile Strength (0.762 mm)                       | 17.2                      | MPa               | ASTM D412      |
| Tensile Elongation (Break, 0.762 mm)              | 550                       | %                 | ASTM D412      |
| Tear Strength <sup>1</sup> (1.91 mm)              | 65.7                      | kN/m              | ASTM D624      |
| Aging                                             | Nominal Value             | Unit              | Test Method    |
| Change in Tensile Strength in Air <sup>2</sup>    |                           |                   | UL Unspecified |
| 136°C, 168 hr                                     | 0.0                       | %                 |                |
| 158°C, 168 hr                                     | -15                       | %                 |                |
| Change in Ultimate Elongation in Air <sup>3</sup> |                           |                   | UL Unspecified |
| 136°C, 168 hr                                     | -3.0                      | %                 |                |
| 158°C, 168 hr                                     | -35                       | %                 |                |
| Electrical                                        | Nominal Value             | Unit              | Test Method    |
| Volume Resistivity (23°C)                         | 2.5E+16                   | ohms · cm         | ASTM D257      |
| Dielectric Strength (23°C)                        | 27                        | kV/mm             | ASTM D149      |
| Dielectric Constant (23°C, 1 MHz)                 | 2.30                      |                   | ASTM D150      |
| Dissipation Factor (23°C, 1 MHz)                  | 2.0E-3                    |                   | ASTM D150      |
| Flammability                                      | Nominal Value             | Unit              | Test Method    |
| Oxygen Index (3.18 mm)                            | 30                        | %                 | ASTM D2863     |
| Extrusion                                         | Nominal Value             | Unit              |                |

|                       |                   |    |
|-----------------------|-------------------|----|
| Cylinder Zone 1 Temp. | 171               | °C |
| Cylinder Zone 2 Temp. | 188               | °C |
| Cylinder Zone 3 Temp. | 193               | °C |
| Cylinder Zone 4 Temp. | 199               | °C |
| Cylinder Zone 5 Temp. | 204               | °C |
| Adapter Temperature   | 204               | °C |
| Melt Temperature      | 196               | °C |
| Die Temperature       | 204               | °C |
| NOTE                  |                   |    |
| 1.                    | Die C             |    |
| 2.                    | Thickness: 30 mil |    |
| 3.                    | Thickness: 30 mil |    |

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