

# Garaflex™ E 4771-A8 NAT OR-1 LCF

Thermoplastic Elastomer

AlphaGary

Message:

GARAFLEX E 4771-A8 OR-1 LCF IS A 105°C RATED, LEAD FREE, FLAME RETARDED, FLEXIBLE JACKETING COMPOUND.

| General Information                                                       |                            |                   |                |
|---------------------------------------------------------------------------|----------------------------|-------------------|----------------|
| Features                                                                  | Flame Retardant            |                   |                |
|                                                                           | Good Flexibility           |                   |                |
|                                                                           | Low (to None) Lead Content |                   |                |
| Uses                                                                      | Flexible Jacketing         |                   |                |
| RoHS Compliance                                                           | Contact Manufacturer       |                   |                |
| Appearance                                                                | Natural Color              |                   |                |
| Forms                                                                     | Pellets                    |                   |                |
| Processing Method                                                         | Extrusion                  |                   |                |
| Physical                                                                  | Nominal Value              | Unit              | Test Method    |
| Specific Gravity                                                          | 1.40 to 1.44               | g/cm <sup>3</sup> | ASTM D792      |
| Hardness                                                                  | Nominal Value              | Unit              | Test Method    |
| Durometer Hardness                                                        |                            |                   | ASTM D2240     |
| Shore A                                                                   | 75 to 81                   |                   |                |
| Shore A, 15 sec                                                           | 65 to 71                   |                   |                |
| Elastomers                                                                | Nominal Value              | Unit              | Test Method    |
| Tensile Strength                                                          |                            |                   | ASTM D412      |
| 0.762 mm                                                                  | 13.1                       | MPa               |                |
| 1.91 mm                                                                   | 12.4                       | MPa               |                |
| Tensile Elongation                                                        |                            |                   | ASTM D412      |
| Break, 1.91 mm                                                            | 340                        | %                 |                |
| Break, 0.762 mm                                                           | 320                        | %                 |                |
| Aging                                                                     | Nominal Value              | Unit              | Test Method    |
| Change in Tensile Strength in Air <sup>1</sup> (136°C, 168 hr)            | -8.0                       | %                 | UL Unspecified |
| Change in Ultimate Elongation in Air <sup>2</sup> (136°C, 168 hr)         | -18                        | %                 | UL Unspecified |
| Change in Tensile Strength <sup>3</sup> (60°C, 168 hr, in ASTM #2 Oil)    | -5.0                       | %                 | UL Unspecified |
| Change in Ultimate Elongation <sup>4</sup> (60°C, 168 hr, in ASTM #2 Oil) | -15                        | %                 | UL Unspecified |
| Thermal                                                                   | Nominal Value              | Unit              | Test Method    |
| Brittleness Temperature                                                   | -24.0                      | °C                | ASTM D746      |
| Flammability                                                              | Nominal Value              | Unit              | Test Method    |

| Oxygen Index (3.18 mm) | 34                | %    | ASTM D2863 |
|------------------------|-------------------|------|------------|
| Extrusion              | Nominal Value     | Unit |            |
| Cylinder Zone 1 Temp.  | 149               | °C   |            |
| Cylinder Zone 2 Temp.  | 154               | °C   |            |
| Cylinder Zone 3 Temp.  | 160               | °C   |            |
| Cylinder Zone 4 Temp.  | 166               | °C   |            |
| Cylinder Zone 5 Temp.  | 171               | °C   |            |
| Adapter Temperature    | 171               | °C   |            |
| Melt Temperature       | 163 to 171        | °C   |            |
| Die Temperature        | 171               | °C   |            |
| NOTE                   |                   |      |            |
| 1.                     | Thickness: 30 mil |      |            |
| 2.                     | Thickness: 30 mil |      |            |
| 3.                     | Thickness: 30 mil |      |            |
| 4.                     | Thickness: 30 mil |      |            |

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