

# Alpha PVC GM 8015-O NATURAL LCF

Polyvinyl Chloride

AlphaGary

Message:

A LEAD / CADMIUM FREE, 105°C RATED, UL94 V-2, FLAME RETARDED ELECTRICAL GRADE MOLDING COMPOUND.

| General Information                                               |                                    |                   |                |
|-------------------------------------------------------------------|------------------------------------|-------------------|----------------|
| Features                                                          | Flame Retardant                    |                   |                |
|                                                                   | Low (to None) Cadmium Content      |                   |                |
|                                                                   | Low (to None) Lead Content         |                   |                |
| Uses                                                              | Electrical/Electronic Applications |                   |                |
| RoHS Compliance                                                   | Contact Manufacturer               |                   |                |
| Appearance                                                        | Natural Color                      |                   |                |
| Forms                                                             | Pellets                            |                   |                |
| Processing Method                                                 | Injection Molding                  |                   |                |
| Physical                                                          | Nominal Value                      | Unit              | Test Method    |
| Specific Gravity                                                  | 1.28 to 1.32                       | g/cm <sup>3</sup> | ASTM D792      |
| Hardness                                                          | Nominal Value                      | Unit              | Test Method    |
| Durometer Hardness                                                |                                    |                   | ASTM D2240     |
| Shore A                                                           | 92 to 98                           |                   |                |
| Shore A, 15 sec                                                   | 86 to 92                           |                   |                |
| Elastomers                                                        | Nominal Value                      | Unit              | Test Method    |
| Tensile Strength (1.91 mm)                                        | 13.8                               | MPa               | ASTM D412      |
| Tensile Elongation (Break, 1.91 mm)                               | 280                                | %                 | ASTM D412      |
| Aging                                                             | Nominal Value                      | Unit              | Test Method    |
| Change in Tensile Strength in Air <sup>1</sup> (136°C, 168 hr)    | -5.0                               | %                 | UL Unspecified |
| Change in Ultimate Elongation in Air <sup>2</sup> (136°C, 168 hr) | -20                                | %                 | UL Unspecified |
| Thermal                                                           | Nominal Value                      | Unit              | Test Method    |
| Brittleness Temperature                                           | -18.0                              | °C                | ASTM D746      |
| Electrical                                                        | Nominal Value                      | Unit              | Test Method    |
| Volume Resistivity (23°C)                                         | 3.0E+14                            | ohms · cm         | ASTM D257      |
| Dielectric Constant (23°C, 100 MHz)                               | 2.85                               |                   | ASTM D150      |
| Dissipation Factor (23°C, 100 MHz)                                | 0.015                              |                   | ASTM D150      |
| Flammability                                                      | Nominal Value                      | Unit              | Test Method    |
| Flame Rating (1.50 mm)                                            | V-2                                |                   | UL 94          |
| Oxygen Index (3.18 mm)                                            | 28                                 | %                 | ASTM D2863     |
| NOTE                                                              |                                    |                   |                |
| 1.                                                                | Thickness: 75 mil                  |                   |                |

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### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

