

# Karina IVORY PVC COMPOUND 70900-35/ 1-F-AC-HSF-AS

Polyvinyl Chloride

Karina Ind. e Com. de Plásticos Ltda

## Message:

FLAME RETARDANT PVC COMPOUND CLASS 70C (PVC/A), FREE OF HEAVY METALS AND UV RESISTANT, RECOMMENDED FOR INSULATION OF ELECTRICAL CABLES (BWF).

| General Information                     |                           |                   |               |
|-----------------------------------------|---------------------------|-------------------|---------------|
| Additive                                | Flame Retardant           |                   |               |
| Features                                | Flame Retardant           |                   |               |
|                                         | Good UV Resistance        |                   |               |
| Uses                                    | Electronic Insulation     |                   |               |
|                                         | Wire & Cable Applications |                   |               |
| Appearance                              | Ivory                     |                   |               |
| Physical                                | Nominal Value             | Unit              | Test Method   |
| Density <sup>1</sup>                    | 1.49 to 1.55              | g/cm <sup>3</sup> | IEC 60811-1-3 |
| Cadmium Content                         | < 50                      | ppm               | IEC 62321     |
| Chromium Content                        | < 100                     | ppm               | IEC 62321     |
| Color                                   | OK                        |                   | ME 12         |
| Color a                                 | -1.11 to 0.890            |                   | ME 12         |
| Color b                                 | 6.37 to 8.37              |                   | ME 12         |
| Color L                                 | 87.5 to 89.5              |                   | ME 12         |
| Mercury Content                         | < 100                     | ppm               | IEC 62321     |
| Bromine Content                         | < 100                     | ppm               | IEC 62321     |
| Lead Content                            | < 100                     | ppm               | IEC 62321     |
| Maximum Variation of Elongation         | < 25                      | %                 | IEC 60811-1-2 |
| Maximum Variation of Tensile Strength   | < 25                      | %                 | IEC 60811-1-2 |
| Hardness                                | Nominal Value             | Unit              | Test Method   |
| Durometer Hardness (Shore A, 15 sec)    | 90 to 94                  |                   | NBR 7456      |
| Mechanical                              | Nominal Value             | Unit              | Test Method   |
| Tensile Stress                          | > 12.6                    | MPa               | IEC 60811-1-1 |
| Tensile Strain (Yield)                  | > 150                     | %                 | IEC 60811-1-1 |
| Elastomers                              | Nominal Value             | Unit              | Test Method   |
| Tensile Strength <sup>2</sup>           | > 12.6                    | MPa               | IEC 60811-1-2 |
| Tensile Elongation <sup>3</sup> (Break) | > 150                     | %                 | IEC 60811-1-2 |
| Thermal                                 | Nominal Value             | Unit              | Test Method   |

|                                 |                                 |         |             |
|---------------------------------|---------------------------------|---------|-------------|
| Brittleness Temperature         | < -5.00                         | °C      | ASTM D746   |
| Electrical                      | Nominal Value                   | Unit    | Test Method |
| Volume Resistivity <sup>4</sup> | > 3.0E+14                       | ohms·cm | NBR 5403    |
| Flammability                    | Nominal Value                   | Unit    | Test Method |
| Oxygen Index                    | > 30                            | %       | NBR 6245    |
| NOTE                            |                                 |         |             |
| 1.                              | 24 hr                           |         |             |
| 2.                              | Aged in Air for 168 hr at 100°C |         |             |
| 3.                              | Aged in Air for 168 hr at 100°C |         |             |
| 4.                              | 24 hr                           |         |             |

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