

# KARINTOX 70/6

Polyolefin

Karina Ind. e Com. de Plásticos Ltda

## Message:

KARINTOX WAS SPECIALLY DEVELOPED. IT IS A THERMOPLASTIC POLYOLEFIN, FLAME RETARDANT, NON-HALOGEN AND LOW SMOKE EMISSION RECOMMENDED FOR ELECTRICAL COATING FOR CABLES UNTIL 1KV. FOR A BETTER USAGE/PROCESSING WE SUGGEST A PRE-WARM/HEAT ( 2 HOURS IN 70-80C ) MAINLY AFTER BEING STOCKED FOR A LONG TIME. LOW COMPRESSION SCREWS ( 1.2:1 IS THE IDEAL ) AND CLEAVING - THERMICAL PROFILE FROM 140C TO 165C AND MELTING TEMPERATURES NO MORE THAN 180C.

| General Information                   |                           |                   |               |
|---------------------------------------|---------------------------|-------------------|---------------|
| Features                              | Flame Retardant           |                   |               |
|                                       | Halogen Free              |                   |               |
|                                       | Low Smoke Emission        |                   |               |
| Uses                                  | Wire & Cable Applications |                   |               |
| Physical                              | Nominal Value             | Unit              | Test Method   |
| Specific Gravity <sup>1</sup>         | 1.39 to 1.45              | g/cm <sup>3</sup> | ASTM D792     |
| Cadmium Content                       | < 50                      | ppm               | IEC 62321     |
| Chromium Content                      | < 100                     | ppm               | IEC 62321     |
| Color                                 | OK                        |                   | ME 12         |
| Color a                               | -1.28 to 1.72             |                   | ME 12         |
| Color b                               | 1.77 to 4.77              |                   | ME 12         |
| Color L                               | 87.6 to 90.6              |                   | ME 12         |
| Mercury Content                       | < 100                     | ppm               | IEC 62321     |
| Moisture                              | < 600                     | ppm               | ME 52         |
| Cold Bend (-15°C)                     | OK                        |                   | IEC 60811-1-4 |
| Hot Deformation (80°C)                | 30.0                      |                   | NBR 6239      |
| Smoke Density - Transmittance         | 75                        | %                 | NBR 11300     |
| Toxicity                              | 0.650                     |                   | NBR 12139     |
| Bromine Content                       | < 100                     | ppm               | IEC 62321     |
|                                       | 5.00 µS/mm                |                   |               |
| Corrosivity of Gases                  | 5.60 pH                   |                   | NBR 11633     |
| Halogen Acid Gas Evolution            | 0.00                      | mg/g              | NBR 10495     |
| Lead Content                          | < 100                     | ppm               | IEC 62321     |
| Maximum Variation of Elongation       | < 20                      | %                 | IEC 60811-1-2 |
| Maximum Variation of Tensile Strength | < 20                      | %                 | IEC 60811-1-2 |
| Hardness                              | Nominal Value             | Unit              | Test Method   |
| Durometer Hardness (Shore D, 15 sec)  | 50 to 54                  |                   | ASTM D2240    |
| 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>           | > 10.0                          | MPa     | IEC 60811-1-2 |
| Tensile Elongation <sup>3</sup> (Break) | > 130                           | %       | IEC 60811-1-2 |
| Thermal                                 | Nominal Value                   | Unit    | Test Method   |
| Brittleness Temperature                 | < -35.0                         | °C      | ASTM D746     |
| Electrical                              | Nominal Value                   | Unit    | Test Method   |
| Volume Resistivity <sup>4</sup>         | > 1.0E+14                       | ohms·cm | ASTM D257     |
| Flammability                            | Nominal Value                   | Unit    | Test Method   |
| Oxygen Index                            | > 36                            | %       | ASTM D2863    |
| 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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