

# Mecoline S RDX 1247 F

Thermoplastic

Melos GmbH

## Message:

The compound can be an ideal solution for applications like coax cables, electronic cables, communication cables, low voltage power cables, instrumentation and control cables in harsh environments.

| General Information                       |                               |                    |              |
|-------------------------------------------|-------------------------------|--------------------|--------------|
| Additive                                  | Flame Retardant               |                    |              |
| Features                                  | Flame Retardant               |                    |              |
|                                           | Halogen Free                  |                    |              |
|                                           | High Heat Resistance          |                    |              |
|                                           | Irradiation Crosslinkable     |                    |              |
|                                           | Low Smoke Emission            |                    |              |
|                                           | Oil Resistant                 |                    |              |
| Uses                                      | Cable Jacketing               |                    |              |
|                                           | Coaxial Cable Jacketing       |                    |              |
|                                           | Communication Cable Jacketing |                    |              |
|                                           | Electronic Cable Jacketing    |                    |              |
|                                           | Wire & Cable Applications     |                    |              |
|                                           |                               |                    |              |
| Agency Ratings                            | IEC 60092-359 SHF2            |                    |              |
| RoHS Compliance                           | RoHS Compliant                |                    |              |
| Forms                                     | Pellets                       |                    |              |
| Processing Method                         | Extrusion                     |                    |              |
| Physical                                  | Nominal Value                 | Unit               | Test Method  |
| Density                                   | 1.45                          | g/cm <sup>3</sup>  | ISO 1183/A   |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 12                            | g/10 min           | ISO 1133     |
| Water Absorption (23°C, 24 hr)            | 0.50                          | %                  | IEC 811-1-3  |
| Water Absorption - 240h at 70°C           | 5.00                          | mg/cm <sup>2</sup> | IEC 811-1-3  |
| pH                                        | 5.6                           |                    | IEC 60754-2  |
| Hot Set <sup>1</sup>                      |                               |                    | IEC 540      |
| Elongation under load                     | 20                            | %                  |              |
| Residual elongation                       | 3.0                           | %                  |              |
| Temperature Index                         | 300                           | °C                 | ASTM D2863   |
| Conductivity                              | 0.900                         | µS/mm              | EN 50267-2-2 |
| Halogen Content                           | < 0.100                       | %                  | IEC 754-1    |
| Toxicity                                  | 1.00                          |                    | NES 713      |
| Head Temperature                          | 170 to 180                    | °C                 |              |

| Hardness                                                 | Nominal Value          | Unit    | Test Method |
|----------------------------------------------------------|------------------------|---------|-------------|
| Shore Hardness (Shore A)                                 | 90                     |         | ISO 7619    |
| Mechanical                                               | Nominal Value          | Unit    | Test Method |
| Tensile Stress                                           |                        |         | IEC 811-1-1 |
| -- <sup>2</sup>                                          | 16.0                   | MPa     |             |
| -- <sup>3</sup>                                          | > 8.00                 | MPa     |             |
| Tensile Strain                                           |                        |         |             |
| Break <sup>4</sup>                                       | 180                    | %       | IEC 811-1-1 |
| Break <sup>5</sup>                                       | > 250                  | %       | IEC 811-1-1 |
| Break, -40°C                                             | 25                     | %       | IEC 811-1-4 |
| Break, -30°C                                             | 45                     | %       | IEC 811-1-4 |
| Elastomers                                               | Nominal Value          | Unit    | Test Method |
| Tear Strength                                            | 49.0                   | kN/m    | ASTM D624   |
| Aging                                                    | Nominal Value          | Unit    | Test Method |
| Change in Tensile Strength in Air (120°C, 240 hr)        | 6.0                    | %       | IEC 811-1-2 |
| Change in Tensile Strain at Break in Air (120°C, 240 hr) | -12                    | %       | IEC 811-1-2 |
| Electrical                                               | Nominal Value          | Unit    | Test Method |
| Volume Resistivity                                       | 1.0E+11                | ohms·cm | IEC 60167   |
| Dielectric Constant (50 Hz)                              | 3.90                   |         | IEC 60250   |
| Flammability                                             | Nominal Value          | Unit    | Test Method |
| Oxygen Index                                             | 38                     | %       | ASTM D2863  |
| Extrusion                                                | Nominal Value          | Unit    |             |
| Cylinder Zone 1 Temp.                                    | 150 to 160             | °C      |             |
| Cylinder Zone 2 Temp.                                    | 160 to 170             | °C      |             |
| Cylinder Zone 3 Temp.                                    | 165 to 175             | °C      |             |
| Cylinder Zone 4 Temp.                                    | 170 to 180             | °C      |             |
| Cylinder Zone 5 Temp.                                    | 170 to 180             | °C      |             |
| Adapter Temperature                                      | 170 to 180             | °C      |             |
| Die Temperature                                          | 170 to 180             | °C      |             |
| NOTE                                                     |                        |         |             |
| 1.                                                       | at 200°C/15min/0.2 MPa |         |             |
| 2.                                                       | After crosslinking     |         |             |
| 3.                                                       | Before crosslinking    |         |             |
| 4.                                                       | After crosslinking     |         |             |
| 5.                                                       | Before crosslinking    |         |             |

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