

Mecoline I RDX 5233

Thermoplastic

Melos GmbH

Message:

This compound is an excellent choice for manufacturing insulated hook-up wires in military and aerospace Industries (airframe wire) and component conductors for MIL-C-275000 cables.

| General Information | | | |
|---|---------------------------|-------------------|-------------|
| Features | Good Abrasion Resistance | | |
| | High Heat Resistance | | |
| | Irradiation Crosslinkable | | |
| | Low Smoke Emission | | |
| | Oil Resistant | | |
| Uses | Aerospace Applications | | |
| | Insulation | | |
| | Marine Applications | | |
| | Military Applications | | |
| | Wire & Cable Applications | | |
| Agency Ratings | MIL C-27500 | | |
| | MIL W-81044/11 | | |
| | MIL W-81044/9 | | |
| RoHS Compliance | RoHS Compliant | | |
| Forms | Pellets | | |
| Processing Method | Extrusion | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 1.05 | g/cm ³ | ISO 1183/A |
| Melt Mass-Flow Rate (MFR) (190°C/21.6 kg) | 12 | g/10 min | ISO 1133 |
| Hardness | Nominal Value | Unit | Test Method |
| Shore Hardness (Shore D) | 60 | | ISO 7619 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Stress | | | IEC 811-1-1 |
| -- ¹ | > 20.0 | MPa | |
| -- ² | > 30.0 | MPa | |
| Tensile Strain | | | IEC 811-1-1 |
| Break ³ | > 400 | % | |
| Break ⁴ | > 700 | % | |
| Extrusion | Nominal Value | Unit | |

| | | |
|--------------------------|----------------------|----|
| Cylinder Zone 1 Temp. | 140 to 150 | °C |
| Cylinder Zone 2 Temp. | 150 to 160 | °C |
| Cylinder Zone 3 Temp. | 160 to 170 | °C |
| Cylinder Zone 4 Temp. | 170 to 180 | °C |
| Cylinder Zone 5 Temp. | 170 to 180 | °C |
| Adapter Temperature | 170 to 180 | °C |
| Head Temperature | 170 to 180 | °C |
| Extruder Screw L/D Ratio | 25.0:1.0 to 30.0:1.0 | |
| Die Temperature | 170 to 180 | °C |

NOTE

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|----|---------------------|
| 1. | After crosslinking |
| 2. | Before crosslinking |
| 3. | After crosslinking |
| 4. | Before crosslinking |

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