

Product Information:

SX-2EC is thermoplastic, flame retardant and halogen free compound on polyolefinic basis. It can be used for production of energy, signal and control cables.

Range material operating temperatures : +90°C.

Properties of this compound comply with the requirements of,

TS HD 604 S1 type M1; EN 50363-7 type TI6 VDE 0207 Part 23 type HJ2; IEC 60502 ST8
EN 50363-8 type TM7, EN 50290-2-27 VDE 0250 Part 215 type HM5
VDE 0207 Part 24 type HM2-HM4; IEC 60092-360 type SHF1 BS 7655 type type LTS2

Product Data:

| Property | Test Method | Unit | Value |
|--|----------------------|--------------------|--------------------|
| Physical Properties | | | |
| Melt Flow Rate (150°C-21,6 kg) | ASTM D 1238 | g/10 min | 7 |
| Density (23°C) | ASTM D-792 | g/cm ³ | 1,53 |
| Hardness | ISO 868 | Shore D | 50 |
| Mechanical Properties | | | |
| Tensile Strength | ISO 527 | MPa | 13 |
| Elongation at Break | ISO 527 | % | 180 |
| Heat Ageing (100 °C, 168 h) | IEC 60811 | | |
| Δ Strength | | % | -30 |
| Δ Elongation | | % | ±40 |
| Tear Strength | ASTM D 1938 | N/mm | 5,5 |
| Hot Pressure Test at 80 °C | IEC 60811 | % | <50 |
| Cold Flex | ISO 458-2 | °C | -40±2 |
| Cold Bend (-15 °C±2 °C) | IEC 60811-504 | - | No Cracks |
| Cold Elongation (-15 °C±2 °C) | IEC 60811-505 | - | 30 Min. |
| Cold Impact (-15 °C±2 °C) | IEC 60811-506 | - | Pass |
| Chemical Properties | | | |
| Halogen Content | EN 60754-1 | % | <0,5 Max. |
| pH | IEC 60754-2 | - | >4.3 |
| Conductivity | IEC 60754-2 | μS/mm | <10 |
| Water Absorption | IEC 60811 | mg/cm ² | <5.0 |
| LOI | ISO 4589 | % | 33 |
| Smoke Density | EN-61034 | % transmittance | >80 |
| Volume Resistivity 20 °C (Alternating Polarity Method) | ASTM D257 Electrodes | Ω.cm | 1.10 ¹⁵ |
| Other Properties | | | |
| Oil IRM 902 oil (70 °C, 4 h) | IEC 60811-404 | | |
| Δ Strength | | % | 10 |
| Δ Elongation | | % | 9 |

Processing:

Extrusion Temperatures: 115 °C–125 °C–130 °C –135°C –145°C–155 °C (Processing with Die Plate 40 Mesh Filter)

Extrusion Temperatures: 120 °C–125 °C–135 °C –145°C –155°C–165 °C (Processing without Die Plate and Filter)

Packaging: It is packaged as 1250 kg in octabin.

Storage&Handling:

SX-2EC should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 6 months after its production date. After this time it's necessary to dry the material before extrusion.

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