# Miramid® SEP30C

Polyamide 66

BASF Leuna GmbH

## Message:

Miramid® SEP30C is a Polyamide 66 (Nylon 66) material filled with 30% glass fiber. It is available in Europe for injection molding.
Important attributes of Miramid® SEP30C are:
Chemical Resistant
Crystalline
Good Stiffness
Impact Modified
Mold Release Agent
Typical applications include:
Automotive
Engineering/Industrial Parts

| General Information | |
|---|---|
| Filler / Reinforcement | Glass Fiber,30% Filler by Weight |
| Additive | Impact Modifier<br>Mold Release |
| Features | Crystalline<br>Fuel Resistant<br>Good Flow<br>Good Stiffness<br>Grease Resistant<br>High Rigidity<br>Impact Modified<br>Oil Resistant<br>Solvent Resistant |
| Uses | Engineering Parts |
| Forms | Granules |
| Processing Method | Injection Molding |
| Multi-Point Data | Isothermal Stress vs. Strain (ISO 11403-1)<br>Secant Modulus vs. Strain (ISO 11403-1) |

| Physical | Dry | Conditioned | Unit | Test Method |
|---|---|---|---|---|
| Density | 1320 | -- | kg/m³ | ISO 1183 [1] |
| Water Absorption | | | | ISO 62 [2] |
| Saturation | 4.8 | -- | % | |
| Equilibrium | 1.3 | -- | % | |
| **Mechanical** | **Dry** | **Conditioned** | **Unit** | **Test Method** |
| Tensile modulus | 8000 | 6000 | MPa | ISO 527-2 [3] |

| | | | | |
|---|---|---|---|---|
| Tensile Stress (Break) | 140 | 120 | MPa | ISO 527-2 [4] |
| Tensile Strain (Break) | 5.0 | 6.0 | % | ISO 527-2 [5] |
| Flexural Stress [6] | 230 | 170 | MPa | ISO 178 |
| Impact | Dry | Conditioned | Unit | Test Method |
| Charpy notched impact strength | | | | ISO 179/1eA [7] |
| -30°C | 15.0 | -- | kJ/m² | |
| 23°C | 20.0 | 25.0 | kJ/m² | |
| Charpy impact strength | | | | ISO 179/1eU [8] |
| -30°C | 90.0 | -- | kJ/m² | |
| 23°C | 100 | 110 | kJ/m² | |
| Thermal | Dry | Conditioned | Unit | Test Method |
| Deflection Temperature Under Load | | | | ISO 75-2 [9] |
| 0.45 MPa | 250 | -- | °C | |
| 1.8 MPa | 240 | -- | °C | |
| Melting Temperature (DSC) | 260 | -- | °C | ISO 3146 |
| Electrical | Dry | Conditioned | Unit | Test Method |
| Volume resistivity | 1.0E+13 | 1.0E+10 | ohms·m | IEC 60093 [10] |
| Dielectric Constant (1 MHz) | 3.50 | 5.50 | | IEC 60250 |
| Dissipation Factor (1 MHz) | 0.015 | 0.20 | | IEC 60250 [11] |
| Comparative tracking index | 550 | -- | | IEC 60112 [12] |
| Injection | Dry | Unit | | |
| Processing (Melt) Temp | 280 to 300 | | °C | |
| Mold Temperature | 80.0 to 100 | | °C | |
| NOTE | | | | |
| 1. | Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted. | | | |
| 2. | Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted. | | | |
| 3. | Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted. | | | |
| 4. | Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted. | | | |
| 5. | Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted. | | | |
| 6. | Typical values for uncoloured product at 23°C and 50% relative humidity | | | |
| 7. | Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted. | | | |

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|---|---|
| 8. | Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted. |
| 9. | Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted. |
| 10. | Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted. |
| 11. | Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted. |
| 12. | Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted. |



Recommended distributors for this material

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