# Miramid® SP10S

Polyamide 66

BASF Leuna GmbH

## Message:

Miramid® SP10S is a Polyamide 66 (Nylon 66) material. It is available in Europe for injection molding.
Important attributes of Miramid® SP10S are:
Chemical Resistant
Good Mold Release
Impact Modified
Impact Resistant
Mold Release Agent
Typical applications include:
Automotive
Construction Applications
Electrical/Electronic Applications
Engineering/Industrial Parts

| General Information | |
|---|---|
| Additive | Impact Modifier |
| | Mold Release |
| Features | Fuel Resistant |
| | Good Flow |
| | Good Impact Resistance |
| | Good Mold Release |
| | Grease Resistant |
| | Oil Resistant |
| | Solvent Resistant |
| Uses | Automotive Applications |
| | Building Materials |
| | Electrical/Electronic Applications |
| | Engineering Parts |
| Forms | Granules |
| Processing Method | Injection Molding |
| Multi-Point Data | Isothermal Stress vs. Strain (ISO 11403-1) |
| | Secant Modulus vs. Strain (ISO 11403-1) |

| Physical | Dry | Conditioned | Unit | Test Method |
|---|---|---|---|---|
| Density | 1110 | -- | kg/m³ | ISO 1183 [1] |
| Water Absorption | | | | ISO 62 [2] |
| Saturation | 7.0 | -- | % | |
| Equilibrium | 2.5 | -- | % | |

| Mechanical | Dry | Conditioned | Unit | Test Method |
|---|---|---|---|---|
| Tensile modulus | 2300 | 1900 | MPa | ISO 527-2 [3] |
| Tensile Stress (Yield) | 60.0 | 50.0 | MPa | ISO 527-2 [4] |
| Tensile Strain (Yield) | 8.0 | 15 | % | ISO 527-2 [5] |
| Nominal Tensile Strain at Break | 40 | > 50 | % | ISO 527-2/50 |
| **Impact** | **Dry** | **Conditioned** | **Unit** | **Test Method** |
| Charpy notched impact strength | | | | ISO 179/1eA [6] |
| -30°C | 11.0 | -- | kJ/m² | |
| 23°C | 20.0 | 30.0 | kJ/m² | |
| Charpy impact strength | | | | ISO 179/1eU [7] |
| -30°C | No Break | -- | | |
| 23°C | No Break | No Break | | |
| **Thermal** | **Dry** | **Conditioned** | **Unit** | **Test Method** |
| Deflection Temperature Under Load | | | | ISO 75-2 [8] |
| 0.45 MPa | 170 | -- | °C | |
| 1.8 MPa | 65.0 | -- | °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 [9] |
| Dielectric Constant (1 MHz) | 3.10 | 5.00 | | IEC 60250 |
| Dissipation Factor (1 MHz) | 0.020 | 0.10 | | IEC 60250 [10] |
| Comparative tracking index | 600 | -- | | IEC 60112 [11] |
| **Injection** | **Dry** | **Unit** | | |
| Processing (Melt) Temp | 280 to 300 | | °C | |
| Mold Temperature | 70.0 to 80.0 | | °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. | Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted. | | | |

| | |
|---|---|
| 7. | Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted. |
| 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. |



Recommended distributors for this material

## Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China