

B 4 Milano

Technical Data Sheet

ABS Resin

Sinkral® B 4 Milano is an extrusion ABS designed for aesthetic applications. It combines thermal and rheological properties in order to allow the extrusion of sheets with an excellent surface finishing (even large thicknesses).

Designation: Thermoplastic ISO 2580-ABS 1,EGN,105-04-16-20

Applications

Sinkral® B 4 Milano is an ABS for extruded items which require excellent aesthetical finishing (alone or by PMMA co-extrusion).

This ABS is suitable in a large variety of sectors such as:

- refrigeration
- sanitary
- automotive
- industrial and food packaging
- furniture edgebands and surfaces.

Typical processing data

Extrusion:

- if no venting, pre-drying required at 80°C for 2 - 4 hr in an air circulating oven
- melt temperature 190 - 230°C

Certification

✓ UL 94 ✓ FMVSS 302

Sinkral® B 4 Milano, as supplied in the original packaging, by composition is compliant to some existing regulations on plastic materials intended for food contact.

Storage

- ⚠ Store away from atmospheric agents and direct sunlight, away from sources of heat and light.
- 🕒 The product, if stored correctly, keeps its characteristics for at least fifteen months.

General information

Sinkral® B 4 Milano is available in natural colour.

For further information, please contact Versalis directly writing to info.styrenics@versalis.eni.com.

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| Property | Test Conditions | Test method | Units | Values |
|---------------------------------------------|-------------------|----------------|----------------------|-----------|
| General | | | | |
| Water absorption | 24h - 23°C | ISO 62 | % | 0,3 |
| Density | - | ISO 1183 | g/cm ³ | 1,04 |
| Rheological | | | | |
| Melt flow rate | 220°C - 10kg | ISO 1133 | g/10' | 4 |
| Mechanical | | | | |
| Strain at yield | 50 mm / min | ISO 527 | % | 3,1 |
| Tensile stress at yield | 50 mm/min | ISO 527 | MPa | 44 |
| Rockwell hardness | Scala R / R Scale | ISO 2039/2 | - | 110 |
| Tensile modulus | 1 mm/min | ISO 527 | MPa | 2200 |
| Charpy impact strength, notched | +23°C | ISO 179/1eA | kJ/m ² | 18 |
| Izod impact strength, notched | +23°C - 4mm | ISO 180/1A | kJ/m ² | 19 |
| Thermal | | | | |
| Coefficient of linear thermal expansion | - | ISO 11359-2 | 10 ⁻⁵ /°C | 9 |
| Thermal conductivity | - | ASTM C 177 | W/(K.m) | 0,17 |
| Moulding shrinkage | - | ISO 294/4 | % | 0,4 ÷ 0,6 |
| Vicat softening temperature | 50 N - 50°C/h | ISO 306/B | °C | 103 |
| Flammability | | | | |
| Flame behaviour | 1,5 mm | UL 94 | cl. | HB |
| Glow wire test (GWT) | 3 mm | IEC 60695-2-10 | °C | 650 |
| Electrical | | | | |
| Dielectric constant (relative permittivity) | 1000 Hz secco/dry | IEC 60250 | - | 3,1 |
| Dissipation factor | 1000 Hz secco/dry | IEC 60250 | - | 15·10E-3 |
| Surface resistivity | secco / dry | IEC 60093 | ohm | 10E14 |
| Volume resistivity | secco / dry | IEC 60093 | ohm-cm | 10E15 |
| Dielectric strength | secco / dry | IEC 60243 | kV/mm | 30 |

Please consult the relevant safety data sheet for more detailed information.

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