

E 332

ABS Resin

Technical Data Sheet

Sinkral® E 332 is a medium heat injection moulding grade that offers good flow and good impact resistance together with an excellent thermal stability during processing.

Sinkral® E 332 is suitable both for extrusion-compound sector and for injection molding.

Designation: Thermoplastic ISO 2580-ABS 1,MGN,105-08-16-20

Applications

Sinkral® E 332 both in natural and selfcoloured version is mainly used in sectors such as:

- automotive
- transportation
- electrical
- compound.

Typical processing data

Injection moulding:

- pre-drying required at 80°C for 2 - 4 hr in an air circulating oven
- mould temperature 40 - 70°C
- melt temperature 240 - 280°C

Extrusion:

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

Certification

✓ UL 94 ✓ VDA 278 ✓ VDA 277 ✓ VDA 270

Sinkral® E 332, 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® E 332 is available in different versions:

- natural colour
- light grey shade 33010
- medium dark grey shade 33730.

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' | 9,5 |
| Mechanical | | | | |
| Strain at yield | 50 mm / min | ISO 527 | % | 3,1 |
| Tensile stress at yield | 50 mm/min | ISO 527 | MPa | 46 |
| Rockwell hardness | Scala R / R Scale | ISO 2039/2 | - | 111 |
| Tensile modulus | 1 mm/min | ISO 527 | MPa | 2250 |
| Charpy impact strength, notched | +23°C | ISO 179/1eA | kJ/m ² | 17 |
| Izod impact strength, notched | +23°C - 4mm | ISO 180/1A | kJ/m ² | 18 |
| 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 |
| Deflection temperature under load (annealed) | 1,82 MPa - 120°C/h | ISO 75 A | °C | 97 |
| 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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