

SK 102

Technical Data Sheet

ABS Resin

Sinkral® SK 102 is fire resistant ABS complying with standard UL 94 V0 for a thickness of 1,5 mm.. Sinkral® SK 102 provides semi-matt surface finishing and has no odour in the solid state. The dedicated production, packaging and management guarantee high quality and traceability.

Applications

Sinkral® SK 102 is suitable for semi-matt finished surfaces or bulk layers that must comply with standard UL 94 V0 in sectors, such as:

- automotive
- transportation
- electrical and electronics

Typical processing data

Extrusion:

- pre drying at 80°C for 4 hours is required
- mould temperature 180 - 220°C

Injection moulding:

- pre drying at 80°C for 4 hours is required
- melt temperature max 240°C
- mould temperature 70°C

Certification

✓ UL 94

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® SK 102 is available in natural version.

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	1,2
Rheological				
Melt flow rate	220°C - 10kg	ISO 1133	g/10'	9
Mechanical				
Strain at yield	50 mm / min	ISO 527	%	2,8
Tensile stress at yield	50 mm/min	ISO 527	MPa	30
Tensile modulus	1 mm/min	ISO 527	MPa	2100
Izod impact strength, notched	+23°C - 4mm	ISO 180/1A	kJ/m ²	7
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	100
Flammability				
Flame behaviour	1,5 mm	UL 94	cl.	V0
Glow wire test (GWT)	2 mm	IEC 60695-2-10	°C	960
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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