

SK 112

Technical Data Sheet

ABS Resin

Sinkral® SK 112 is a fire resistant ABS complying with standard UL 94 V0 for a thickness of 1,5 mm. Sinkral® SK 112 provides high glossy surface finishing and offers good mechanical properties. This grade has no odour in the solid state. The dedicated production, packaging and management guarantee an high quality and traceability.

Applications

Sinkral® SK 112 is suitable for glossy finished surfaces or bulk layers that must comply with standard UL 94 V0 in sectors, such as:

- automotive
- transportation
- electrical and electronics
- window profiles.

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 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 112 is available in different shades:

- natural
- white UV stabilized, Versalis code /U 31240.

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	1,19
Rheological				
Melt flow rate	220°C - 10kg	ISO 1133	g/10'	14
Mechanical				
Strain at yield	50 mm / min	ISO 527	%	2,4
Tensile stress at yield	50 mm/min	ISO 527	MPa	44
Rockwell hardness	Scala R / R Scale	ISO 2039/2	-	105
Tensile modulus	1 mm/min	ISO 527	MPa	2300
Charpy impact strength, notched	+23°C	ISO 179/1eA	kJ/m ²	18
Izod impact strength, notched	-30°C - 4mm	ISO 180/1A	kJ/m ²	8
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
Deflection temperature under load (annealed)	1,82 MPa - 120°C/h	ISO 75 A	°C	96
Vicat softening temperature	50 N - 50°C/h	ISO 306/B	°C	99
Flammability				
Flame behaviour	1,5 mm	UL 94	cl.	V0
Glow wire test (GWT)	3 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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