

## L 322

### ABS Resin

### Technical Data Sheet

Sinkral® L 322 is an injection molding ABS with a high impact resistance associated with a very high thermal stability, cleanliness and processability.

### Applications

Sinkral® L 322 is suitable for:

- small and large appliances
- furnishing components
- toys
- cosmetics
- metal plating
- electrical components.

### Typical processing data

Injection moulding:

- dry for 1 - 2h at 80°C
- melt temperature 190 - 220°C
- mould temperature 40 - 70°C

### Certification

✓ UL 94

Sinkral® L 322, 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® L 322 is available in different shades:

- natural
- white - code 17178
- white anti UV - code /U 31752
- white anti UV antistatic - code /SU 31623
- black - code 16001.

For further information, please contact Versalis directly writing to [info.styrenics@versalis.eni.com](mailto:info.styrenics@versalis.eni.com).

Property	Test Conditions	Test method	Units	Values
<b>General</b>				
Water absorption	24h - 23°C	ISO 62	%	0,3
Density	-	ISO 1183	g/cm <sup>3</sup>	1,04
<b>Rheological</b>				
Melt flow rate	220°C - 10kg	ISO 1133	g/10'	24
<b>Mechanical</b>				
Strain at yield	50 mm / min	ISO 527	%	2,8
Tensile stress at yield	50 mm/min	ISO 527	MPa	46
Rockwell hardness	Scala R / R Scale	ISO 2039/2	-	109
Tensile modulus	1 mm/min	ISO 527	MPa	2400
Charpy impact strength, notched	+23°C	ISO 179/1eA	kJ/m <sup>2</sup>	19
Izod impact strength, notched	+23°C - 4mm	ISO 180/1A	kJ/m <sup>2</sup>	20
<b>Thermal</b>				
Coefficient of linear thermal expansion	-	ISO 11359-2	10 <sup>-5</sup> /°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	98
<b>Flammability</b>				
Flame behaviour	1,5 mm	UL 94	cl.	HB
Glow wire test (GWT)	3 mm	IEC 60695-2-10	°C	650
<b>Electrical</b>				
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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