

## M 4 Modena

Technical Data Sheet

### ABS Resin

Versalis Sinkral® M 4 Modena is an ABS for extrusion and co-extrusion of sheets and profiles with high mattness and very low roughness.

Designation: Thermoplastic ISO 2580-ABS 1, ENG, 105-08-09-15

### Applications

Sinkral® M 4 Modena is used for the extrusion and co-extrusion of sheets that need high mattness and a smooth surface finishing.

This ABS is suitable in sectors such as:

- automotive and transportation
- furnitures edgebands and surfaces.

### Typical processing data

Extrusion:

- if no venting, pre-drying required at 80 °C for 2 - 4 hours in an air circulating oven
- melt temperature 180 - 220 °C

### Certification

✓ UL 94   ✓ FMVSS 302   ✓ VDA 278   ✓ VDA 277   ✓ VDA 270

Sinkral® M 4 Modena, 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® M 4 Modena is available in natural color.

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

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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'	8
<b>Mechanical</b>				
Strain at yield	50 mm / min	ISO 527	%	3,4
Tensile stress at yield	50 mm/min	ISO 527	MPa	35
Rockwell hardness	Scala R / R Scale	ISO 2039/2	-	97
Tensile modulus	1 mm/min	ISO 527	MPa	1550
Charpy impact strength, notched	+23°C	ISO 179/1eA	kJ/m <sup>2</sup>	10
Izod impact strength, notched	+23°C - 4mm	ISO 180/1A	kJ/m <sup>2</sup>	9,5
Izod impact strength, notched	-30°C - 4mm	ISO 180/1A	kJ/m <sup>2</sup>	7
<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
Deflection temperature under load (annealed)	1,82 MPa - 120°C/h	ISO 75 A	°C	95
Vicat softening temperature	50 N - 50°C/h	ISO 306/B	°C	101
<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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