

## B 432/E

### Technical Data Sheet

#### ABS Resin

Sinkral® B 432/E is a general purpose extrusion ABS which exhibits a good balance between rigidity and toughness. Its rheological properties together with the excellent thermal stability facilitate the extrusion of both thin and thick sheets.

Designation: Thermoplastic ISO 2580-ABS 1,EGN,105-04-16-20

#### Applications

Sinkral® B 432/E is widely used in the extrusion and co-extrusion of sheets with good surface finishing and high draw ratios.

This ABS is suitable in a large variety of sectors such as:

- refrigeration
- sanitary
- automotive
- industrial and food packaging
- furniture edgebands and surfaces.

#### Typical processing data

Extrusion:

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

#### Certification

✓ UL 94   ✓ FMVSS 302   ✓ NSF 51

Sinkral® B 432/E, 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® B 432/E is available in natural colour.

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'	4
<b>Mechanical</b>				
Tensile strain at break	50 mm/min	ISO 527	%	45
Strain at yield	50 mm / min	ISO 527	%	3,1
Tensile stress at yield	50 mm/min	ISO 527	MPa	44
Flexural strength	2 mm/min	ISO 178	MPa	68
Rockwell hardness	Scala R / R Scale	ISO 2039/2	-	110
Flexural modulus	2 mm/min	ISO 178	MPa	2150
Tensile modulus	1 mm/min	ISO 527	MPa	2200
Charpy impact strength, notched	+23°C	ISO 179/1eA	kJ/m <sup>2</sup>	18
Izod impact strength, notched	+23°C - 4mm	ISO 180/1A	kJ/m <sup>2</sup>	19
Izod impact strength, notched	-30°C - 4mm	ISO 180/1A	kJ/m <sup>2</sup>	9
<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	103
<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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