

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 .

B 432/E

ABS Resin

Technical Data Sheet

Property	Test Conditions	Test method	Units	Values
General				
Water absorption	24h - 23°C	ISO 62	%	0,3
Density	-	ISO 1183	g/cm ³	1,04
Rheological				
Melt flow rate	220°C - 10kg	ISO 1133	g/10'	4
Mechanical				
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 ²	18
Izod impact strength, notched	+23°C - 4mm	ISO 180/1A	kJ/m ²	19
Izod impact strength, notched	-30°C - 4mm	ISO 180/1A	kJ/m ²	9
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	103
Flammability				
Flame behaviour	1,5 mm	UL 94	cl.	HB
Glow wire test (GWT)	3 mm	IEC 60695-2-10	°C	650
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.

The information and data presented herein are to the best of our knowledge true and accurate but no warranty or guarantee, expressed or implied, is made nor is any liability accepted.

Versalis is available to provide the guaranteed values for each product on demand.