



versalis

Technical Data Sheet

Sinkral[®]
ABS Resin

B 432/E

Sinkral B 432/E is a general purpose extrusion grade which exhibits a good balance between rigidity and toughness.

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

Applications

Sheets with good surface finish (co-extruded or not and with high draw ratios) for a variety of uses in sectors such as refrigeration, sanitary, automotive, packaging and furnitures (profiles).

Typical processing data

Extrusion:

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

General information

Grade available in natural colour only.



Properties	Test conditions	Test methods	Units	Values
General				
Density		ISO 1183	g/cm ³	1.04
Water absorption	24 h / 23°C	ASTM D 570	%	0.3
Rheological				
Melt flow rate (MFR)	220°C - 10 kg	ISO 1133	g/10 min	4
Mechanical				
Tensile strength	50 mm/min	ASTM D 638	MPa	45
Strain at break	50 mm/min	ASTM D 638	%	45
Flexural strength	2 mm/min	ASTM D 790	MPa	68
Flexural modulus	2 mm/min	ASTM D 790	MPa	1850
Izod impact strength, notched	+23°C - thickness 3.2 mm	ISO 180/4A	J/m	220
	0°C - thickness 3.2 mm	ISO 180/4A	J/m	165
	-20°C - thickness 3.2 mm	ISO 180/4A	J/m	125
	-40°C - thickness 3.2 mm	ISO 180/4A	J/m	100
	+23°C - thickness 4,0 mm	ISO 180/1A	kJ/m ²	18
	-40°C - thickness 4,0 mm	ISO 180/1A	kJ/m ²	9
Charpy impact strength, notched unnotched unnotched	+23°C	DIN 53453	kJ/m ²	12
	+23°C	DIN 53453	kJ/m ²	NB
	-40°C	DIN 53453	kJ/m ²	NB
Rockwell hardness	scale R	ISO 2039/2	-	R110
Thermal				
Vicat softening temperature	10 N - 120°C/h	ISO 306/A 120	°C	109
	50 N - 120°C/h	ISO 306/B 120	°C	104
Deflection temperature under load (annealed)	1.8 MPa - 120°C/h	ASTM D 648	°C	104
Coefficient of linear thermal expansion		ASTM D 696	10 ⁻⁵ /°C	9
Thermal conductivity		ASTM C 177	W/(K·m)	0.17
Moulding shrinkage		internal method	%	0.4 - 0.6
Flammability				
Flame behaviour	thickness 1.5 mm	UL 94	class	HB
Glow wire test (GWT)	thickness 3,0 mm	IEC 60695-2-1	°C	650
Electrical				
Surface resistivity	dry	IEC 60093	ohm	10E14
Volume resistivity	dry	IEC 60093	ohm·cm	10E15
Dielectric strength	dry	IEC 60243	kV/mm	30
Dielectric constant (relative permittivity)	1000 Hz - dry	IEC 60250	-	3.1
Dissipation factor	1000 Hz - dry	IEC 60250	-	15·10E-3

