



versalis

Technical Data Sheet

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Sinkral[®] ABS Resin

B 532/ E

Sinkral B 532/E is an extrusion grade, which combines high toughness with good rigidity. Its rheological characteristics and good thermal stability are required for the production of large extruded sheet.

Designation: Thermoplastic ISO 2580-ABS 1,EGN,105-04-25-20

Applications

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

The composition of this grade, on request, can meet European Regulations for packaging in contact with foodstuffs.

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	5
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	1900
Izod impact strength, notched	+23°C - thickness 3.2 mm	ISO 180/4A	J/m	280
	0°C - thickness 3.2 mm	ISO 180/4A	J/m	190
	-20°C - thickness 3.2 mm	ISO 180/4A	J/m	150
	-40°C - thickness 3.2 mm	ISO 180/4A	J/m	125
	+23°C - thickness 4,0 mm	ISO 180/1A	kJ/m ²	20
	-40°C - thickness 4,0 mm	ISO 180/1A	kJ/m ²	10
Charpy impact strength, notched unnotched unnotched	+23°C	DIN 53453	kJ/m ²	16
	+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	108
	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 (internal test)	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