

Sinkral® B 432/E

Acrylonitrile Butadiene Styrene

Versalis S.p.A.

Message:

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

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

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

Grade available in natural color only.

General Information	
Features	General Purpose
	Good Surface Finish
	Good Toughness
	Medium Rigidity
Uses	Appliances
	Automotive Applications
	Furniture
	Packaging
	Profiles
	Sanitary Products
	Sheet
Appearance	Natural Color
Forms	Pellets
Processing Method	Coextrusion
	Extrusion

Physical	Nominal Value	Unit	Test Method
Density	1.04	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	4.0	g/10 min	ISO 1133
Molding Shrinkage	0.40 to 0.60	%	Internal Method
Water Absorption (23°C, 24 hr)	0.30	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	110		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹	45.0	MPa	ASTM D638
Tensile Elongation ² (Break)	45	%	ASTM D638
Flexural Modulus ³	2300	MPa	ASTM D790
Flexural Strength ⁴	68.0	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	12	kJ/m ²	DIN 53453
Charpy Unnotched Impact Strength			DIN 53453
-40°C	No Break		
23°C	No Break		
Notched Izod Impact			
-40°C, 3.20 mm	100	J/m	ISO 180/4A
-20°C, 3.20 mm	130	J/m	ISO 180/4A
0°C, 3.20 mm	170	J/m	ISO 180/4A
23°C, 3.20 mm	220	J/m	ISO 180/4A
-40°C ⁵	9.0	kJ/m ²	ISO 180/1A
23°C ⁶	17	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Annealed)	104	°C	ASTM D648
Vicat Softening Temperature			
--	109	°C	ISO 306/A120
--	104	°C	ISO 306/B120
CLTE - Flow	9.0E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.17	W/m/K	ASTM C177
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+14	ohms	IEC 60093
Volume Resistivity	1.0E+15	ohms·cm	IEC 60093
Electric Strength	30	kV/mm	IEC 60243-1
Dielectric Constant (1 kHz)	3.10		IEC 60250
Dissipation Factor (1 kHz)	0.015		IEC 60250
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm)	HB		UL 94
Glow Wire Ignition Temperature (3.00 mm)	650	°C	IEC 60695-2-13
Additional Information	Nominal Value		
Designation	Thermoplastic ISO 2580-ABS 1,EGN,105-04-16-20		
Extrusion	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	2.0 to 4.0	hr	
Melt Temperature	190 to 230	°C	
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	2.0 mm/min		
4.	2.0 mm/min		
5.	4 mm		
6.	4 mm		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519
Phone: +86 13424755533
Email: sales@su-jiao.com
No. 215, Lianhe North Road, Fengxian District, Shanghai, China

