Sinkral® B 532/E

Acrylonitrile Butadiene Styrene

Versalis S.p.A.

Message:

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: Thermoplastics ISO 2580-ABS 1,EGN,105-04-25-20
Large sheet with good surface finish (co-extruded or not and suitable for high draw ratios) for a variety if uses in sectors such as refrigeration, sanitary, automotive, packaging and furniture (profiles).
Grade available in natural color only.
The composition of this grade, on request, can meet European Regulations for packaging in contact with foodstuffs.

General Information	
Features	Good Surface Finish Good Thermal Stability Good Toughness High Rigidity
Uses	Appliance Components Automotive Applications Furniture Packaging Profiles Sanitary Products Sheet
Appearance	Natural Color
Forms	Pellets
Processing Method	Coextrusion Extrusion Profile Extrusion Sheet Extrusion

Physical	Nominal Value	Unit	Test Method
Density	1.04	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	5.0	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)	16	kJ/m²	DIN 53453
Charpy Unnotched Impact Strength			DIN 53453
-40°C	No Break		
23°C	No Break		
Notched Izod Impact			
-40°C, 3.20 mm	130	J/m	ISO 180/4A
-20°C, 3.20 mm	150	J/m	ISO 180/4A
0°C, 3.20 mm	190	J/m	ISO 180/4A
23°C, 3.20 mm	280	J/m	ISO 180/4A
-40°C [5]	10	kJ/m²	ISO 180/1A
23°C [6]	20	kJ/m²	ISO 180/1A
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Annealed)	104	°C	ASTM D648
Vicat Softening Temperature			
--	108	°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		Internal Method
Glow Wire Ignition Temperature (3.00 mm)	650	°C	IEC 60695-2-13
Additional Information	**Nominal Value**		
Designation	Thermoplastic ISO 2580-ABS 1,EGN,105-04-25-20		
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

Recommended distributors for this material

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