

Sinkral® E 332

Acrylonitrile Butadiene Styrene

Versalis S.p.A.

Message:

Sinkral E 332 is a medium heat injection moulding grade offering good flow and good impact resistance together with an excellent thermal stability during processing.

Designation: Thermoplastic ISO 2580-ABS 1,MGN,105-08-16-25

Thanks to a low Yellow Index and colour constancy, it is suitable for selfcolouring, mainly in the automotive industry (internal trim parts).

Grade available in natural colour only.

General Information			
Features	Good Color Stability		
	Good Flow		
	Good Impact Resistance		
	Good Thermal Stability		
	Medium Heat Resistance		
Uses	Automotive Applications		
	Automotive Interior Trim		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Extrusion		
	Injection Molding		
Multi-Point Data	Specific Volume vs Temperature (ISO 11403-2)		
Physical	Nominal Value	Unit	Test Method
Density	1.04	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	10	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)	111		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹	40.0	MPa	ASTM D638
Tensile Elongation ² (Break)	75	%	ASTM D638
Flexural Modulus ³	2200	MPa	ASTM D790
Flexural Strength ⁴	62.0	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	85	J/m	ISO 180/4A
-20°C, 3.20 mm	90	J/m	ISO 180/4A
0°C, 3.20 mm	120	J/m	ISO 180/4A
23°C, 3.20 mm	190	J/m	ISO 180/4A
-40°C ⁵	8.0	kJ/m ²	ISO 180/1A
23°C ⁶	15	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Annealed)	103	°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,MGN,105-08-16-20		
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	2.0 to 4.0	hr	
Processing (Melt) Temp	240 to 280	°C	
Mold Temperature	40.0 to 70.0	°C	
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

