

Sinkral® B 732/E

Acrylonitrile Butadiene Styrene

Versalis S.p.A.

Message:

Sinkral B 732/E is a very high impact resistant grade for sheet extrusion with good processability and high thermal stability.

Designation: Thermoplastic ISO 2580-ABS 1,EG,105-04-35-20

Applications

Extrusion of thick sheet, (co-extruded or not), for sanitary and transportation sectors.

This grade is available in natural color only

General Information			
UL YellowCard	E83071-101632912		
Features	Good Processability		
	Good Thermal Stability		
	High Impact Resistance		
Uses	Sanitary Products		
	Sheet		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Coextrusion		
	Sheet 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)	4.5	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)	103		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹	44.0	MPa	ASTM D638
Tensile Elongation ² (Break)	45	%	ASTM D638
Flexural Modulus ³	2200	MPa	ASTM D790
Flexural Strength ⁴	45.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	20	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	140	J/m	ISO 180/4A
-20°C, 3.20 mm	200	J/m	ISO 180/4A
0°C, 3.20 mm	300	J/m	ISO 180/4A
23°C, 3.20 mm	350	J/m	ISO 180/4A
-40°C ⁵	12	kJ/m ²	ISO 180/1A
23°C ⁶	28	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Annealed)	100	°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		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,EG,105-04-35-20		
Extrusion	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	2.0 to 4.0	hr	
Melt Temperature	200 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		

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