SINKRAL F 332

Sinkral F 332 is a general purpose injection moulding grade which combines excellent thermal stability during processing with a good balance between flow and impact characteristics.
Designation: Thermoplastic ISO 2580-ABS 1,MGN,105-15-16-20

	Properties	Test condition	Method	Unit	Value
Rheological	Melt Flow Rate (MFR)	220°C - 10 kg	ISO 1133	g/10 min	14
Flammability	Flame Behaviour	thickness 1.5 mm	UL 94	class	HB
	Glow Wire Test (GWT)	thickness 3 mm	IEC 60695-2-1	°C	650
Physical	Density		ISO 1183	g/cm³	1.04
	Water Absorption	24 h - 23°C	ASTM D 570	%	0.3
Thermal	Vicat Softening Temperature	10 N - 120°C/h	ISO 306/A120	°C	107
	Vicat Softening Temperature	50 N - 120°C/h	ISO 306/B120	°C	102
	Deflection Temperature under Load (annealed)	1.8 MPa - 120°C/h	ASTM D648	°C	101
	Coefficient of Linear Thermal Expansion		ASTM D 696	10^{-5} /°C	9
	Thermal Conductivity		ASTM C 177	W/(Kxm)	0,17
	Moulding Shrinkage		internal	%	0,4-0,6
	Tensile Strength	50 mm/min	ASTM D 638	MPa	42
	Strain at Break	50 mm/min	ASTM D 638	%	60
	Flexural Strength	2 mm/min	ASTM D 790	MPa	60
	Flexural Modulus	2 mm/min	ASTM D 790	MPa	2250
	Izod Impact, notched	+23°C - thickness 3.2 mm	ISO 180/4A	J/m	190
	Izod Impact, notched	0°C - thickness 3.2 mm	ISO180/4A	J/m	125

Mechanical	Izod Impact, notched	-20°C - thickness 3.2 mm	ISO 180/4A	J/m	100
	Izod Impact, notched	-40°C - thickness 3.2 mm	ISO 180/4A	J/m	90
	Izod Impact, notched	+23°C - thickness 4 mm	ISO 180/1A	kJ/m²	14
	Izod Impact, notched	-40°C - thickness 4 mm	ISO 180/1A	kJ/m²	8
	Charpy Impact Strength, notched	+23°C	DIN 53453	kJ/m²	13
	Rockwell Hardness	R-scale	ISO 2039/2	-	R110
	Charpy Impact Strength, unnotched	+23°C	DIN 53453	kJ/m²	NB
	Charpy Impact Strength, unnotched	-40°C	DIN 53453	kJ/m²	NB
	Izod Impact, notched	+23°C - thickness 3.2 mm	ISO 180/4A	J/m	
Electrical	Surface Resistivity	dry	IEC 60093	Ω	10E14
	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	-	15x10E-3
	Volume Resistivity	dry	IEC 60093	Ω • cm	10E15