

Polimeri Europa Sinkral® F 332 ABS Resin

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

Sinkral F 332 is a general purpose injection molding 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 Applications: Suitable for use in a variety of industrial sectors, for the production of small household appliances and white goods, vacuum cleaners and telephones. Grade available in natural color only. Suitable masterbatches could be recommended for self-coloring. Information provided by Polimeri Europa ISO 2580-ABS 1, MGN, 105-15-16-20

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polimeri-Europa-Sinkral-F-332-ABS-Resin.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	ISO 1183
Water Absorption	0.30 %	0.30 %	24 hours - 23°C; ASTM D 570
Linear Mold Shrinkage	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	
Melt Flow	14 g/10 min @Load 10.0 kg, Temperature 220 °C	14 g/10 min @Load 22.0 lb, Temperature 428 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	110	110	ISO 2039/2
Tensile Strength, Yield	42.0 MPa	6090 psi	50 mm/min; ASTM D 638
Elongation at Break	60 %	60 %	50 mm/min; ASTM D 638
Flexural Strength	60.0 MPa	8700 psi	2 mm/min; ASTM D 790
Flexural Modulus	2.25 GPa	326 ksi	2 mm/min; ASTM D 790
Izod Impact, Notched	0.900 J/cm @Thickness 3.20 mm, Temperature -40.0 °C	1.69 ft-lb/in @Thickness 0.126 in, Temperature -40.0 °F	ISO 180/4A
	1.00 J/cm @Thickness 3.20 mm, Temperature -20.0 °C	1.87 ft-lb/in @Thickness 0.126 in, Temperature -4.00 °F	ISO 180/4A
	1.25 J/cm @Thickness 3.20 mm, Temperature 0.000 °C	2.34 ft-lb/in @Thickness 0.126 in, Temperature 32.0 °F	ISO 180/4A
	1.90 J/cm	3.56 ft-lb/in	

Mechanical Properties	Metric	English	Comments
	@Thickness 3.20 mm, Temperature 23.0 °C	@Thickness 0.126 in, Temperature 73.4 °F	ISO 1801A
Izod Impact, Notched (ISO)	8.00 kJ/m ²	3.81 ft-lb/in ²	ISO 180/1A
	@Thickness 4.00 mm, Temperature -40.0 °C	@Thickness 0.157 in, Temperature -40.0 °F	
	14.0 kJ/m ²	6.66 ft-lb/in ²	ISO 180/1A
	@Thickness 4.00 mm, Temperature 23.0 °C	@Thickness 0.157 in, Temperature 73.4 °F	
Charpy Impact Unnotched	NB	NB	DIN 53453
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	NB	NB	DIN 53453
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	1.30 J/cm ²	6.19 ft-lb/in ²	DIN 53453
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	90.0 µm/m-°C	50.0 µin/in-°F	ASTM D 696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	0.170 W/m-K	1.18 BTU-in/hr-ft ² -°F	ASTM C 177
Deflection Temperature at 1.8 MPa (264 psi)	101 °C	214 °F	120°C/h; ASTM D 648
Vicat Softening Point	102 °C	216 °F	50 N - 120°C/h; ISO 306/B120
	107 °C	225 °F	10 N - 120°C/h; ISO 306/A120
Flammability, UL94	HB	HB	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
Glow Wire Test	650 °C	1200 °F	IEC 60695-2-1
	@Thickness 3.00 mm	@Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	Dry; IEC 60093
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	Dry; IEC 60093
Dielectric Constant	3.1	3.1	Dry; IEC 60250
	@Frequency 1000 Hz	@Frequency 1000 Hz	

Dielectric Strength Electrical Properties	30.0 kV/mm Metric	752 kV/in English	Dry: IEC 60243 Comments
Dissipation Factor	0.015 @Frequency 1000 Hz	0.015 @Frequency 1000 Hz	dry; IEC 60250

Processing Properties	Metric	English	Comments
Melt Temperature	230 - 270 °C	446 - 518 °F	
Mold Temperature	40.0 - 70.0 °C	104 - 158 °F	
Drying Temperature	80.0 °C	176 °F	No venting in an air circulating oven
Dry Time	2 - 4 hour	2 - 4 hour	No venting in an air circulating oven

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