

Polimeri Europa Sinkral® E 332 ABS Resin

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

Sinkral E 332 is a medium heat injection molding 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. Applications: Thanks to a low Yellow Index and color constancy, it is suitable for self-coloring, mainly in the automotive industry (internal trim parts) Grade available in natural color only. Suitable masterbatches could be recommended for self-coloring. The composition of this grade meets European Regulations for packaging in contact with foodstuffs. Information provided by Polimeri Europa ISO 2580-ABS 1, MGN, 105-08-16-25

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polimeri-Europa-Sinkral-E-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	10 g/10 min @Load 10.0 kg, Temperature 220 °C	10 g/10 min @Load 22.0 lb, Temperature 428 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	111	111	ISO 2039/2
Tensile Strength, Yield	40.0 MPa	5800 psi	50 mm/min; ASTM D 638
Elongation at Break	75 %	75 %	50 mm/min; ASTM D 638
Flexural Strength	62.0 MPa	8990 psi	2 mm/min; ASTM D 790
Flexural Modulus	2.20 GPa	319 ksi	2 mm/min; ASTM D 790
Izod Impact, Notched	0.850 J/cm @Thickness 3.20 mm, Temperature -40.0 °C	1.59 ft-lb/in @Thickness 0.126 in, Temperature -40.0 °F	ISO 180/4A
	0.900 J/cm @Thickness 3.20 mm, Temperature -20.0 °C	1.69 ft-lb/in @Thickness 0.126 in, Temperature -4.00 °F	ISO 180/4A
	1.15 J/cm @Thickness 3.20 mm, Temperature 0.000 °C	2.15 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 @Thickness 4.00 mm, Temperature -40.0 °C	3.81 ft-lb/in ² @Thickness 0.157 in, Temperature -40.0 °F	ISO 180/1A
	15.0 kJ/m ² @Thickness 4.00 mm, Temperature 23.0 °C	7.14 ft-lb/in ² @Thickness 0.157 in, Temperature 73.4 °F	ISO 180/1A
Charpy Impact Unnotched	NB @Temperature -40.0 °C	NB @Temperature -40.0 °F	DIN 53453
	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	DIN 53453
Charpy Impact, Notched	1.20 J/cm ² @Temperature 23.0 °C	5.71 ft-lb/in ² @Temperature 73.4 °F	DIN 53453

Thermal Properties	Metric	English	Comments
CTE, linear	90.0 µm/m-°C @Temperature 20.0 °C	50.0 µin/in-°F @Temperature 68.0 °F	ASTM D 696
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)	103 °C	217 °F	120°C/h; ASTM D 648
Vicat Softening Point	104 °C	219 °F	50 N - 120°C/h; ISO 306/B120
	109 °C	228 °F	10 N - 120°C/h; ISO 306/A120
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	
Glow Wire Test	650 °C @Thickness 3.00 mm	1200 °F @Thickness 0.118 in	IEC 60695-2-1

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 @Frequency 1000 Hz	3.1 @Frequency 1000 Hz	Dry; IEC 60250

Dielectric Strength Electrical Properties	30.0 kV/mm Metric	762 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	240 - 280 °C	464 - 536 °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

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China