Polimeri Europa Sinkral® C 442 ABS Resin

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

Sinkral C 442 is a heat resistant injection molding grade offering good flow and impact resistance together with excellent thermal stability during processing. Designation: Thermoplastic ISO 2580-ABS 1,MGN,105-08-16-20Applications: Thanks to a low Yellow Index and color constancy, it is suitable for self-coloring, mainly in the automotive industry for interior (extruded profiles, interior trim,..) and with proper masterbatches, for exterior parts such as grilles and rear view mirrors.Grade available either in natural or colored versions. Suitable masterbatches could be recommended for self-coloring.Information provided by Polimeri EuropaISO 2580-ABS 1, MGN, 105-08-16-20

Order this product through the following link:
http://www.lookpolymers.com/polymer_Polimeri-Europa-Sinkral-C-442-ABS-Resin.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in³	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	6.0 g/10 min @Load 10.0 kg, Temperature 220 °C	6.0 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	43.0 MPa	6240 psi	50 mm/min; ASTM D 638
Elongation at Break	45 %	45 %	50 mm/min; ASTM D 638
Flexural Strength	65.0 MPa	9430 psi	2 mm/min; ASTM D 790
Flexural Modulus	2.30 GPa	334 ksi	2 mm/min; ASTM D 790
Izod Impact, Notched	1.00 J/cm @Thickness 3.20 mm, Temperature -40.0 °C	1.87 ft-lb/in @Thickness 0.126 in, Temperature -40.0 °F	ISO 180/4A
	1.25 J/cm @Thickness 3.20 mm, Temperature -20.0 °C	2.34 ft-lb/in @Thickness 0.126 in, Temperature -4.00 °F	ISO 180/4A
	1.65 J/cm @Thickness 3.20 mm, Temperature 0.000 °C	3.09 ft-lb/in @Thickness 0.126 in, Temperature 32.0 °F	ISO 180/4A
	2.00 J/cm	3.75 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 180/1A
Izod Impact, Notched (ISO)	9.00 kJ/m² @Thickness 4.00 mm, Temperature -40.0 °C	4.28 ft-lb/in² @Thickness 0.157 in, Temperature -40.0 °F	ISO 180/1A
	17.0 kJ/m² @Thickness 4.00 mm, Temperature 23.0 °C	8.09 ft-lb/in² @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/cm² @Temperature 23.0 °C	5.71 ft-lb/in² @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-ft²-°F	ASTM C 177
Deflection Temperature at 1.8 MPa (264 psi)	108 °C	226 °F	120°C/h; ASTM D 648
Vicat Softening Point	108 °C	226 °F	50 N - 120°C/h; ISO 306/B120
	114 °C	237 °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

Electrical Properties	Metric	English	Comments
Dielectric Strength	30.0 kV/mm	762 kV/in	Dry; IEC 60243
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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