

Polimeri Europa Sinkral® B 532/E ABS Resin

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

Sinkral B 532/E is an extrusion grade, which combines high toughness with good rigidity. Its rheological characteristics and good thermal stability are required for the production of large extruded sheet. Designation: Thermoplastic ISO 2580-ABS 1,EGN,105-04-25-20
 Applications: Large sheets with good surface finish (co-extruded or not and suitable for high draw ratios) for a variety of uses in sectors such as refrigeration, sanitary, automotive, packaging and furniture (profiles).Grade available in natural color only. Suitable masterbatches could be recommended for self-coloring.Information provided by Polimeri EuropaISO 2580-ABS 1, EGN, 105-04-25-20

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polimeri-Europa-Sinkral-B-532E-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	5.0 g/10 min @Load 10.0 kg, Temperature 220 °C	5.0 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	35.0 MPa	5080 psi	50 mm/min; ASTM D 638
Elongation at Break	45 %	45 %	50 mm/min; ASTM D 638
Flexural Strength	68.0 MPa	9860 psi	2 mm/min; ASTM D 790
Flexural Modulus	2.30 GPa	334 ksi	2 mm/min; ASTM D 790
Izod Impact, Notched	1.25 J/cm @Thickness 3.20 mm, Temperature -40.0 °C	2.34 ft-lb/in @Thickness 0.126 in, Temperature -40.0 °F	ISO 180/4A
	1.50 J/cm @Thickness 3.20 mm, Temperature -20.0 °C	2.81 ft-lb/in @Thickness 0.126 in, Temperature -4.00 °F	ISO 180/4A
	1.90 J/cm @Thickness 3.20 mm, Temperature 0.000 °C	3.56 ft-lb/in @Thickness 0.126 in, Temperature 32.0 °F	ISO 180/4A
	2.80 J/cm	5.25 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)	10.0 kJ/m ²	4.76 ft-lb/in ²	ISO 180/1A
	@Thickness 4.00 mm, Temperature -40.0 °C	@Thickness 0.157 in, Temperature -40.0 °F	
	20.0 kJ/m ²	9.52 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	1.60 J/cm ²	7.61 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)	104 °C	219 °F	120°C/h; ASTM D 648
Vicat Softening Point	104 °C	219 °F	50 N - 120°C/h; ISO 306/B120
	108 °C	226 °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	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	190 - 230 °C	374 - 446 °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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