

Polimeri Europa SINKRAL C443 ABS, Heat Stabilized (discontinued **)

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Heat Resistant, Molded

Material Notes:

Symbol according to ISO 1043-1: ABS Grade designation according to ISO 2580-ABS 1, MG, 105-08-25-20 Medium heat injection moulding grade. The availability of different industrial processes to manufacture ABS has permitted the development of SINKRAL C443, which provides an excellent balance between thermal and mechanical properties. Typical applications for this grade are automotive interior parts such as trim and central consoles. Unfilled. Suitable for Injection Molding, Sheet Extrusion, Thermoforming. Supplied as pellets. Contains lubricant and release agent. ISO data. Information provided by Enichem Polimeri Europa now has Enichem's plastics businesses. This grade is no longer in the product line.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polimeri-Europa-SINKRAL-C443-ABS-Heat-Stabilized-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	
Water Absorption	1.0 %	1.0 %	
Moisture Absorption at Equilibrium	0.20 %	0.20 %	Humidity Absorption
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	cm ³ /10 min

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	38.0 MPa	5510 psi	50 mm/min
Elongation at Break	30 %	30 %	Nominal
Elongation at Yield	3.0 %	3.0 %	50 mm/min
Tensile Modulus	2.20 GPa	319 ksi	1 mm/min
Charpy Impact Unnotched	NB	NB	
	16.0 J/cm ² @Temperature -30.0 °C	76.1 ft-lb/in ² @Temperature -22.0 °F	
Charpy Impact, Notched	1.80 J/cm ²	8.57 ft-lb/in ²	
	0.900 J/cm ² @Temperature -30.0 °C	4.28 ft-lb/in ² @Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
	90.0 µm/m-°C	50.0 µin/in-°F	

CTE linear, Parallel to Flow Thermal Properties	Metric @ Temperature 20.0 °C	English @ Temperature 68.0 °F	Comments
Deflection Temperature at 0.46 MPa (66 psi)	98.0 °C	208 °F	
Deflection Temperature at 1.8 MPa (264 psi)	85.0 °C	185 °F	
Vicat Softening Point	103 °C	217 °F	50°C/hr; 50N
Glass Transition Temp, Tg	112 °C	234 °F	10°C/min test
Flammability, UL94	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	HB	HB	
	@Thickness 3.10 mm	@Thickness 0.122 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	
Dielectric Constant	2.8	2.8	
	@Frequency 100 Hz	@Frequency 100 Hz	
	2.9	2.9	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	30.0 kV/mm	762 kV/in	
Dissipation Factor	0.0090	0.0090	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.010	0.010	
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	600 V	600 V	

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