

## Polimeri Europa SINKRAL D160 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, 115-08-09-25 Very high heat injection moulding grade with good flow. Permits production of complex, thin walled items. SINKRAL D160 is typically used in the automotive sector for interior and exterior parts such as wheel covers (painted), dashboard inserts, air grilles and rear lamp housings (vacuum metal plated). Unfilled. Suitable for Injection Molding. 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-D160-ABS-Heat-Stabilized-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_Polimeri-Europa-SINKRAL-D160-ABS-Heat-Stabilized-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Density	1.06 g/cc	0.0383 lb/in <sup>3</sup>	
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 <sup>3</sup> /10 min

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	45.0 MPa	6530 psi	50 mm/min
Elongation at Break	15 %	15 %	Nominal
Elongation at Yield	3.1 %	3.1 %	50 mm/min
Tensile Modulus	2.60 GPa	377 ksi	1 mm/min
Charpy Impact Unnotched	8.00 J/cm <sup>2</sup>	38.1 ft-lb/in <sup>2</sup>	
	5.00 J/cm <sup>2</sup> @Temperature -30.0 °C	23.8 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	
Charpy Impact, Notched	0.600 J/cm <sup>2</sup>	2.86 ft-lb/in <sup>2</sup>	
	0.300 J/cm <sup>2</sup> @Temperature -30.0 °C	1.43 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	90.0 µm/m-°C	50.0 µin/in-°F	

Thermal Properties	@Temperature 20.0 °C Metric	@Temperature 68.0 °F English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	107 °C	225 °F	
Deflection Temperature at 1.8 MPa (264 psi)	93.0 °C	199 °F	
Vicat Softening Point	113 °C	235 °F	50°C/hr; 50N
Glass Transition Temp, Tg	126 °C	259 °F	10°C/min test
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 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	3.0 @Frequency 1e+6 Hz	3.0 @Frequency 1e+6 Hz	
	3.1 @Frequency 100 Hz	3.1 @Frequency 100 Hz	
Dielectric Strength	30.0 kV/mm	762 kV/in	
Dissipation Factor	0.0050 @Frequency 1e+6 Hz	0.0050 @Frequency 1e+6 Hz	
	0.0060 @Frequency 100 Hz	0.0060 @Frequency 100 Hz	
Comparative Tracking Index	600 V	600 V	

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