

## TIMCAL ENSACO™ 350G Conductive Carbon Black

Category : Carbon , Carbon Black , Other Engineering Material , Additive/Filler for Polymer

### Material Notes:

ENSACO™ & SUPER P™ conductive carbon blacks are carbon blacks with a high to very high void volume allowing the retention of a carbon network at low to very low filler content. The void volume can originate from the interstices between the carbon black particle due to their complex arrangement and from the porosity. PROPERTIES: Very High Structure Very High Surface Area High purity PERFORMANCE Electrical conductivity booster UHF curing booster FINAL APPLICATIONS: Power cable accessories, rollers, roller covering, microwave heating of thick rubber parts, shoe soles, heat shrinkable tubes Information provided by TIMCAL

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_TIMCAL-ENSACO-350G-Conductive-Carbon-Black.php](http://www.lookpolymers.com/polymer_TIMCAL-ENSACO-350G-Conductive-Carbon-Black.php)

Physical Properties	Metric	English	Comments
Density	0.135 g/cc	0.00488 lb/in <sup>3</sup>	Pour Density; ASTM D1513
Volatiles	<= 0.30 %	<= 0.30 %	Weight loss during heating between 105 and 950°C; Internal Method 02
Oil Absorption	320 %	320 %	OAN (Oil Absorption Number) ml/100g; ASTM D2414
Particle Size	45 µm	45 µm	10 ppm sieve residue; ASTM D1514
pH	8.0 - 11	8.0 - 11	ASTM D1512
Specific Surface Area	770 m <sup>2</sup> /g	770 m <sup>2</sup> /g	BET Nitrogen Surface Area; ASTM D3037
Ash	0.030 %	0.030 %	ASTM D1506

Mechanical Properties	Metric	English	Comments
Tensile Strength	64.8 MPa	9400 psi	Volume Resistivity 3 [log{ohm-cm}]
	64.8 MPa	9400 psi	Volume Resistivity 10.3 [log{ohm-cm}]
	65.8 MPa	9540 psi	Volume Resistivity 2.3 [log{ohm-cm}]
	67.0 MPa	9720 psi	Volume Resistivity 2 [log{ohm-cm}]
Izod Impact, Notched (ISO)	5.00 kJ/m <sup>2</sup>	2.38 ft-lb/in <sup>2</sup>	Volume Resistivity 2 [log{ohm-cm}]
	6.00 kJ/m <sup>2</sup>	2.86 ft-lb/in <sup>2</sup>	Volume Resistivity 3 [log{ohm-cm}]
	7.00 kJ/m <sup>2</sup>	3.33 ft-lb/in <sup>2</sup>	Volume Resistivity 4.5 [log{ohm-cm}]
	7.50 kJ/m <sup>2</sup>	3.57 ft-lb/in <sup>2</sup>	Volume Resistivity 10.5 [log{ohm-cm}]

Component Elements Properties	Metric	English	Comments
Sulfur, S	0.020 %	0.020 %	ASTM D1619

Electrical Properties	Metric	English	Comments
Volume Resistivity	6.0 ohm-cm	6.0 ohm-cm	6% Carbon Black in HDPE
	10 ohm-cm	10 ohm-cm	15% Carbon Black in HDPE
	100 ohm-cm	100 ohm-cm	10% Carbon Black in HDPE
	1000 ohm-cm	1000 ohm-cm	8% Carbon Black in HDPE

Processing Properties	Metric	English	Comments
Moisture Content	<= 1.0 %	<= 1.0 %	as packed; ASTM D1509

Descriptive Properties	Value	Comments
Aspect	Fine black granules	
COAN (Crushed OAN) ml/100g	270	ASTM D3493
Toluene Extract, Max, %	0.1	ASTM D4527

## Contact Songhan Plastic Technology Co.,Ltd.

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