

TIMCAL ENSACO™ 210G 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. Applications: black pigment UV stabilizer rubber reinforcement Information provided by TIMCAL

Order this product through the following link:

http://www.lookpolymers.com/polymer_TIMCAL-ENSACO-210G-Conductive-Carbon-Black.php

Physical Properties	Metric	English	Comments
Density	0.210 g/cc	0.00759 lb/in ³	Pour Density; ASTM D1513
Volatiles	<= 0.20 %	<= 0.20 %	Weight loss during heating between 105 and 950°C; Internal Method 02
Oil Absorption	155 %	155 %	OAN (Oil Absorption Number) ml/100g; ASTM D2414
Particle Size	45 µm	45 µm	2 ppm sieve residue; ASTM D1514
pH	8.0 - 11	8.0 - 11	ASTM D1512
Specific Surface Area	55 m ² /g	55 m ² /g	BET Nitrogen Surface Area; ASTM D3037
Mooney Viscosity	44	44	(1+4), EVA/NBR Strippable Compounds
Ash	0.10 %	0.10 %	ASTM D1506

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	90 - 94	90 - 94	EVA/NBR Strippable Compounds
Tensile Strength	1.90 - 16.9 MPa	276 - 2450 psi	EVA/NBR Strippable Compounds
Elongation at Break	130 - 180 %	130 - 180 %	EVA/NBR Strippable Compounds
100% Modulus	0.0122 GPa	1.77 ksi	EVA/NBR Strippable Compounds

Component Elements Properties	Metric	English	Comments
Sulfur, S	<= 0.50 %	<= 0.50 %	ASTM D1619

Electrical Properties	Metric	English	Comments
Volume Resistivity	<= 500 ohm-cm	<= 500 ohm-cm	25% carbon black in HDPE; Internal Method 11
	6600 ohm-cm	6600 ohm-cm	EVA/NBR Strippable Compounds

Electrical Properties	Metric	English	Comments
Processing Properties	Metric	English	Comments
Moisture Content	0.10 %	0.10 %	as packed; ASTM D1509

Descriptive Properties	Value	Comments
Aspect	Fine black granules	
COAN (Crushed OAN) ml/100g	95	ASTM D3493
Peel Strength	3 N	hot air 100°C, EVA/NBR Strippable Compounds
	3 N	hot air 100°C after 21 days, EVA/NBR Strippable Compounds
	4 N	hot air 100°C after 3 days, EVA/NBR Strippable Compounds
Toluene Extract, Max, %	0.1	ASTM D4527

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