



IMPROVING
THE FUTURE

ECOCB

Carbon Black

GENERAL DESCRIPTION

EcoCB is a semireinforcing carbon black. Its physical properties are similar to grades from N300 series. However, its rubber performance is similar to a N660 due to the surface chemistry.

Depending on the application it can be used for partial or total replacement for N660 or N772 carbon blacks reaching the requested quality standards.

EcoCB has dynamical properties which made it appropriate for heating dissipation applications. EcoCB gives smoother and shinier surfaces on EPDM rubber profiles.



ECOCB ADVANTAGES

Environmental Benefits: One ton of virgin carbon black by “furnace” process produces an average of 2,5 Ton of CO₂. To produce one EcoCB Ton only generates 130 kg of CO₂, which means a reduction of 95% in carbon footprint.

Competitive Benefits: Companies using EcoCB will obtain environmental certification for their contribution to Circular Economy for using recovered raw materials.

Competitive Price: EcoCB is not indexed to the oil price.

APPLICATIONS

- Carcass for agriculture tires
- Automotive belts
- Hoses/ Hose covers
- General Extrusion
- Wiper blades

- Anti-vibration mounts
- Shoe soles
- Roofing
- Conveyor belts
- Inks for the graphic industry

Carbon Black Properties

ITEM		ECOCB
Surface area ASTM D6556 [m ² /g]	NSA	69,5
	STSA	68,9
Oil absorption [mL/100g]	OAN	99,0
Mositure content ASTM D1509 [%]	-	0,8
Tolune discolouration ASTM D1618 [%T]	-	96,9
Ash content ASTM D1506 [%]	-	15,7
Bulk composition by TGA [wt%]	Volatiles	1,3
	Carbon	83,7
	Inorganic	15,0

In-Rubber Physical Properties

PROPERTY	UNIT	ECOCB	N660	N772
Min	[d Nm]	1,63	1,45	1,23
Max	[d Nm]	14,36	15,02	13,66
Ts2	[mm:ss]	5,18	4,86	4,33
T90	[mm:ss]	12,11	10,08	9,19
Shore A	-	64	65	57
M100%	[MPa]	2,29	2,94	1,95
M300%	[MPa]	8,52	13,60	8,53
TS	[MPa]	21,4	20,3	20,3
Elongation at break	[%]	599	482	625