



L2 PBT MASTERBATCH

Additive Performance



The L2 Masterbatch, based on PBT (polybutylene terephthalate), enriched with pyrolyzed organic bamboo additives, is designed for textile staple fibers and filament yarns, to create enhanced and rapid insulation in sports performance wear, winter jackets and garments, or underwear.

Garments made with L2 thermo bamboo fibers have high insulation properties (up to 3.2 clo), rapid warming effects from +4°C. to over +27.8°Celsius. In summers, functional textiles on the basis of L2 thermo bamboo fibers provide excellent moisture management and sweat permeability thanks to the unique properties and porosity of organic bamboo compound. Bamboo bodywear does not stick on the body, feels soft, warm in winters and dry on body in summers.

Features of L2 Additive

- Contains organic bamboo compound
- Non-sticking on body
- Rapid moisture absorption
- Sweat permeability
- Subjective de-odourizing
- Rapid warming within few seconds from +4°C. to °27.8°C
- Insulation up to 3.2 clo
- Strong protection against ultraviolet emission
- Good for medium to dark colour dye

Applications

Athlete & Functional Textiles
Non-woven fibers for insulation
Intimate Apparels
Winter & Performance Wear

PRELIMINARY SPECIFICATION

Data subject to change.
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January 6, 2010
L2.MASTERBATCH.V1.0

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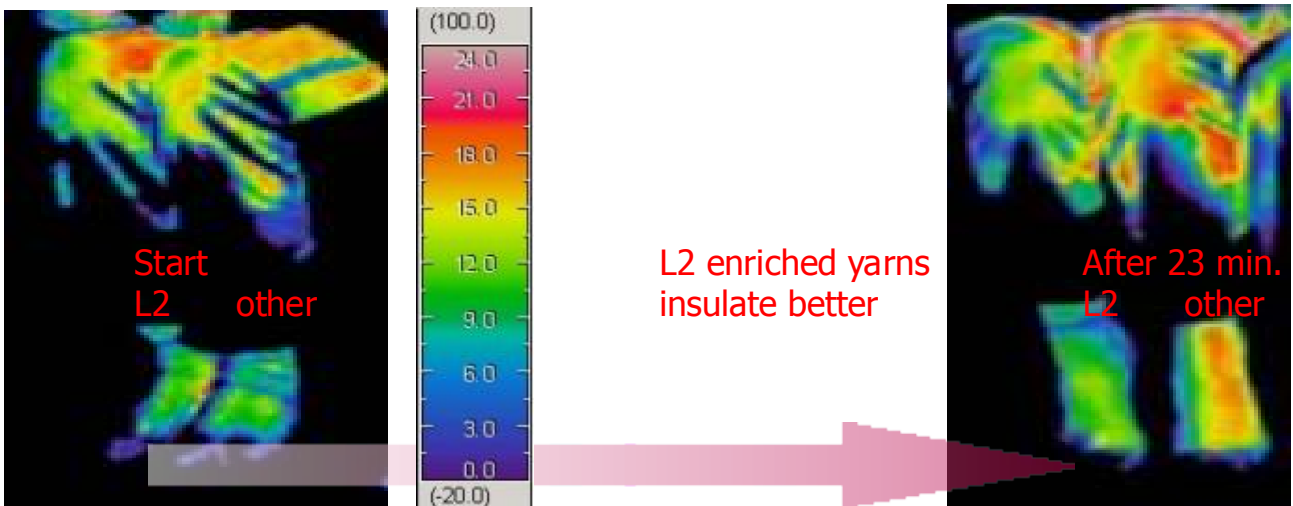
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Technical Data

Lab Analysis of a Production Lot

Property	Unit	Value	Test Method
I.V.	D 1/g	0.51± 0.015	ASTM D-2857
H2O CONTENT	Wt %	< 0.042	ASTM D-4019
MELTING POINT	°C	249 ± 1.5	ASTM D-3418
COLOR	Black	0.0 ± 1	JIS Z 8722
PELLET SHAPE		Oval	
BULK DENSITY	g/cm3	1.04 ± 0.12	
PACKING	Kg/bag	25	
A.A. CONTENT	ppm	18	CELANESE
MOLDING TEMPERATURE	°C	275 – 285	
POLYESTER	Wt %	72 ± 1.0	
PYROLIZED BAMBOO (charcoal / active carb)	Wt %	18	
AVERAGE PARTICLE DIAMETER	nm	250	Laser Ø analysis
IMPORTANT: Above data is subject to change.			

Example of garment (socks) with and without L2 enriched fibers.



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