



RESPECTFUL OF
THE ENVIRONMENT



LIGHT AND ECOLOGICAL

Faithful to our philosophy of innovation, Resimol has been working in the development of **EcoTPU** soles since 2012.

After the development of the compact **EcoTPU** soles with the same properties as polyester-based Tpu, we launched a new product line, the light version of the **EcoTPU** soles.

With 60% of material from renewable sources, we make a sole with the highest quality and technical features.

Light soles with a density of 0.60 (g/cm³) and abrasion of 150 (mm³), with a matt finish and an aspect similar to vulcanised rubber.

At the same time, it is possible to enrich this product by including inserts in different colours, rims or caps of various materials.

It is possible to manufacture the soles in one colour or in two colours with a sole of compact **EcoTPU** and a midsole of a very light material.



Resimol
SHOE SOLES

ECOLOGICAL
→ **TPU** ←
60%
RENEWABLE PLANT
ORIGIN MATERIAL

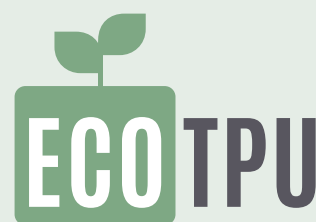
WITH THE SAME
FEATURES AS
STANDARD TPU

**ECO TPU**

LEAVES NO
IMPRINT ON
THE EARTH



As an added value, we must emphasise that these products comply with all European Union restrictions regarding forbidden chemical products, as may be seen on the enclosed table.



PARAMETER	Measure Unit	Limit Value Child (≤ 14 years)	Limit Value Adult (> 14 years)	TEST METHOD
Phtalates: DNOP, DIDP, DIHP, DHNUP, DPP, DHP, DIPP, PIPP	%	≤ 0,1 % (1000 mg/kg) (total)		CPSC-CH-C1001-09.3
Phtalates: DINP, DEHP, BBP, DBP, DIBP	%	Not use		CPSC-CH-C1001-09.3
Lead (total)	mg/kg	≤ 90	≥ 100	CPSC-CH-E1002-08
Cadmium (total)	mg/kg	≤ 40	≥ 100	EN 1122 (microwave digestion: ICP-MS) CPSC-CH-E1004-11
Nonylphenoethoxylates (NPEO) Octylphenoethoxylates (OPEO)	mg/kg	Not use (≤ 10 by contamination)		Internal Proc.: Solvent extraction: LC-MS
Heavy Metals (extractable)	mg/kg	Rif. Appendix 1	-	Extraction with hydrochloric acid solution: 0.07M (EN 71-3EN)
Dioxin and Furans	mg/kg	≤ 1 - 100 (sum) (*)		Extraction with organic solvent: GC-MS
Alogenated Flame Retardants	mg/kg	Not use		Extraction with organic solvent. Analysis by: GC-MS, GC-ECD, LC-MS, GB/T 24279
Bisphenool A	mg/kg	≤ 0.1	=	EN 71-10/11
Polycyclic Aromatic Hydrocarbons (PAH)	mg/kg	≤ 0.5	≥ 1.0	Solvent extraction - GC-MS
Organotin compounds: (TBT), (TPhT), (DBT), (DBTO), (DOT)	mg/kg	≤ 0.5 (TBT) (TPhT) (TBTO) ≥ 1.0 (DBT) (DOT)	≤ 1.0 (TBT) (TPhT) (TBTO) ≤ 2.0 (DBT) (DOT)	GC-MS Test Method: refer to ISO 1735

MAIN ADVANTAGES OF EcoTpu LIGHT SOLES.

- LIGHT SOLES MADE OF AN ECOLOGICAL MATERIAL.
- MATT AND QUALITY ASPECT.
- POSSIBILITY TO MANUFACTURE IN ONE OR TWO COLOURS AND TO ADD RIM AND INSERTS.
- STRICT COMPLIANCE REGARDING FORBIDDEN CHEMICAL SUBSTANCES.

Therefore, **EcoTPU** is an environmentally-friendly material, which keeps the physical and mechanical properties almost on the same level as oil-derived TPU. This makes of **EcoTPU** a very attractive option for all those shoe manufacturers who wish to work a natural shoe line, by showing their clients they have a policy of environmentally-responsible action.



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