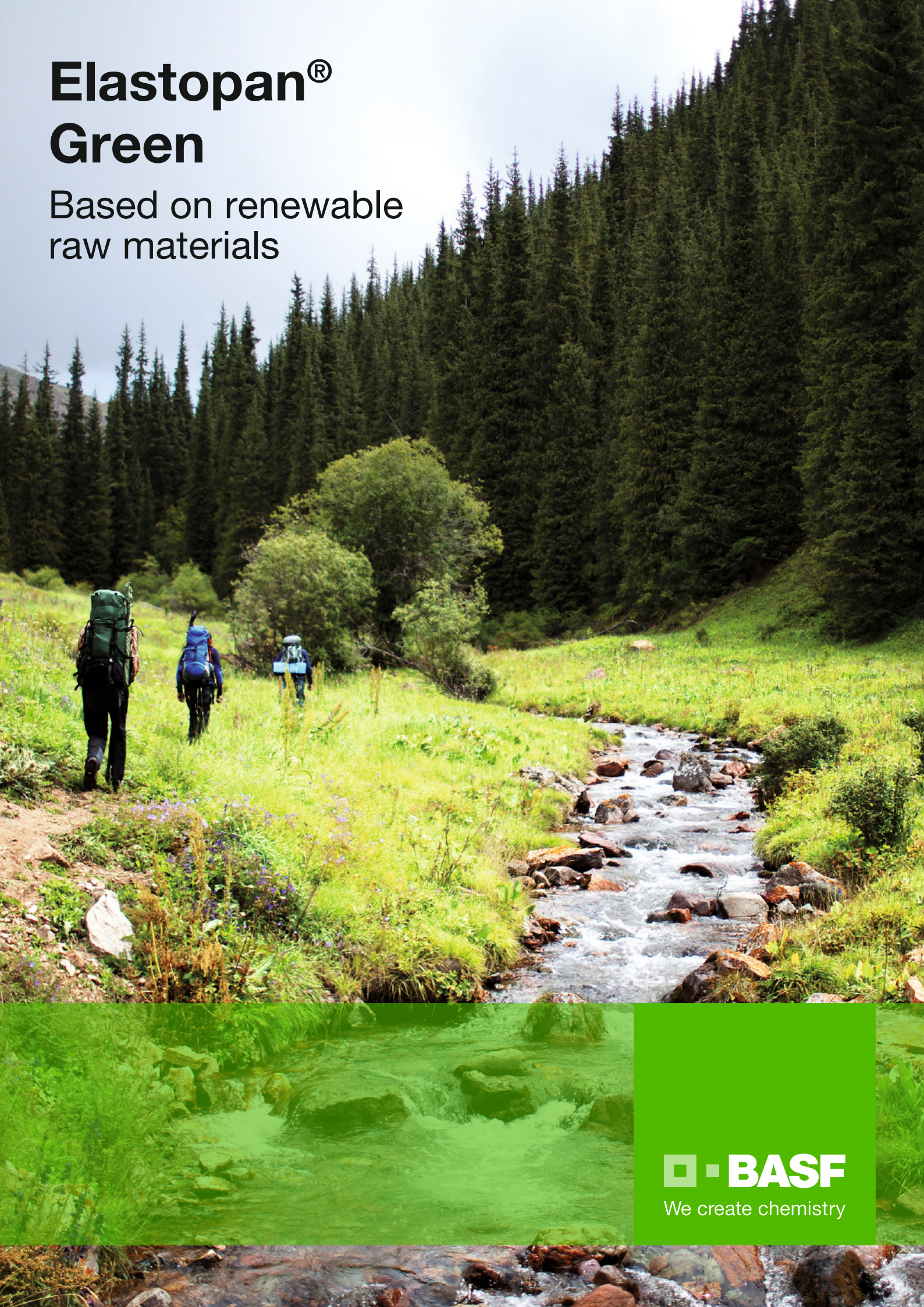


Elastopan[®] Green

Based on renewable
raw materials



 **BASF**
We create chemistry

Elastopan® Green for high performing shoes with reduced impact on the environment

Elastopan® Green is a new generation of products based on renewable raw materials. They are polyester based PU systems for the footwear industry. They are suitable in several applications' fields, from street shoes to safety footwear. Compact PU systems for outsoles and foamed products for single density soles and midsoles are available in a wide range of mold density and hardness.

Elastopan® Green contains renewable raw materials which do not originate from agriculture, and therefore there is not any interaction with cultivation of land and any activity involved in the food sources.

The absolute content of "bio carbon" in Elastopan® Green is around 24%, that means more than 40% of the total carbon comes from the green chemistry. In terms of weight,

Elastopan® Green contains on average 45% of renewable raw materials; in other words about the half of sole is "green".

Elastopan® Green shows an excellent survey of mechanical properties in respect of performance and durability. The flex endurance makes Elastopan® Green suitable for walking and trekking shoes, and the outstanding resistance to hydrolysis makes possible the manufacturing of shoes with long shelf life.

Elastopan® Green is an advanced PU material that meets the growing consumer needs for high performing shoes with reduced impact on the environment.

Elastopan® Green for single density soles

Properties	Unit	Green
Density	g/cm ³	0.5
Hardness	Shore A	44
Tensile strength	MPa	5 - 6
Elongation at break	%	480 - 520
Tear strength (trouser)	N/mm	5 - 6
Flex endurance (Specimen thickness = 10 mm)	Cycles	30,000 cycles w/o cut growth
Abrasion	mg	30 - 50
Tensile strength after hydrolysis (14 days, 70°C, 100% RH)	MPa	5 - 6
Elongation at break after hydrolysis (14 days, 70°C, 100% RH)	%	480 - 520

RH = relative humidity

Note

The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. It is the responsibility of the recipient of our products to ensure that any proprietary rights and existing laws and legislation are observed. (January 2015)