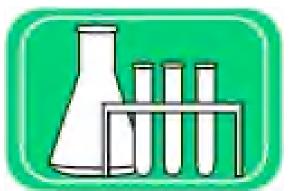




Reiner Hengstmann



Social & Environmental Affairs PUMA AG





GENERAL PROCEDURE

- Get certificates or follow the testing procedure
- All materials have to be verified
 - Use accredited labs
- Company RSL must be fulfilled
- Ship only products in compliance with company RSLs!

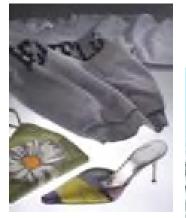
NORDSTROM

The Phylmar Group, Inc.

a al e h Safety

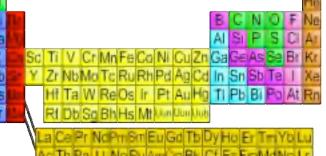
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MARKS & SPENCER









TESTING GUIDANCE

All materials which are used in production must be compliant

- Dark colors present a higher risk of failure
- Whites randomly for certain parameters
 - New and not yet known materials/compositions
 - Only production related material and no samples





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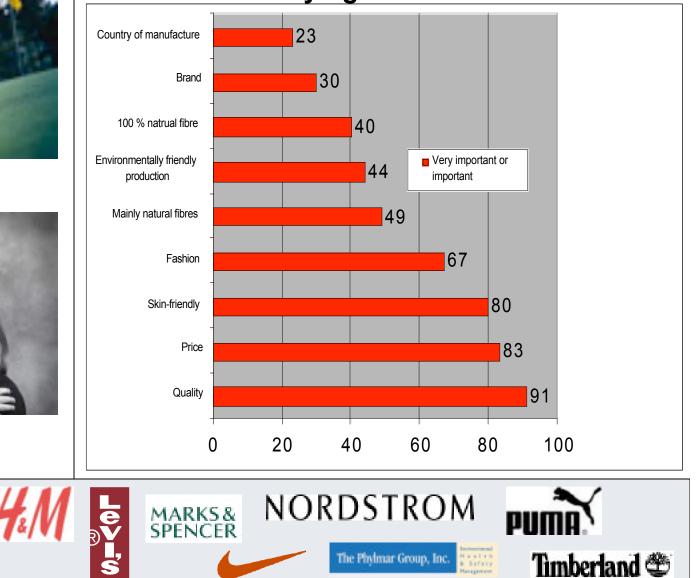


GAP

adidas

TESTING

What is the customer preference for buying textiles?



Pnismed workers merely the tip of an iceberg

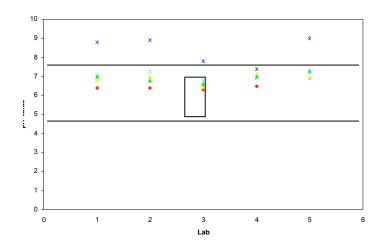
TESTING

WHY IS IT IMPORTANT TO TEST?

- Consumer safety
 - Product safety
- Production safety
- Environment safety
- Workplace and worker safety



pH round robin test

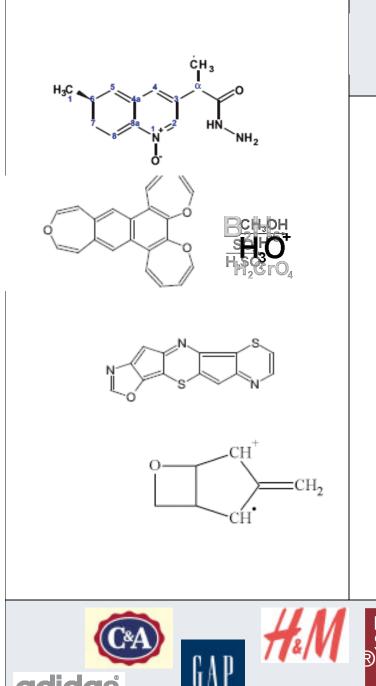


5 labs only one passed

WHO SHOULD DO THE TESTING?

- Labs with an international reputation
- Labs which are accredited
 - Labs which participate frequently in round robin testing





WHEN AND WHAT TO TEST?

- Follow company RSL requirements
- Oeko-Tex 100 Standard, if required by customer





TESTING GUIDANCE

- Have a standard procedure
- Test every season or every new material, as required by customer
 - Be proactive to avoid wasting money
 - Make testing as efficient as possible



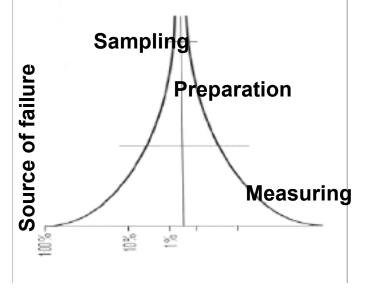
TESTING GUIDANCE



- Use company specified test methods. If none specified, use internationally recognized test methods.
- Make sure results will be globally comparable.
- In case of questions, do not act on your own. Contact your customer.







____ Total = ____ Sampling + ____ Preparation + + ____ Measuring

TESTING GUIDANCE

- The testing procedure starts with the sampling
- Poor sampling may cause failures, delays, and increase costs
- Every test result is only as good as the technique of taking the sample



Example:

Supplier collected a fresh water sample



- Failed because it contained 3,000 Coliform bacteria which may lead to serious health effects
- Could have led to needless investment to improve water supply
- Finally found out that the sampling technique was wrong, correct sampling and retesting resulted in acceptable results



