TNO Industrial Technology

Nederlandse Organisatie voor toegepast-natuurwetenschappelijk onderzoek/Netherlands Organisation for Applied Scientific Research



Polymer Technology De Rondom 1 P.O. Box 6235 5600 HE Eindhoven The Netherlands

TNO report

42/03.009407-E/sec

Determination of the strength of three samples Cablesafe

www.tno.nl

T +31 40 265 00 00 F +31 40 265 03 01

Date

January 8, 2004

Author(s)

Mr. P. Langeveld

Number of pages

4

Sponsor

Westmark B.V.

P.O. Box 82

3930 EB Woudenberg

The Netherlands

Project name

Project number

Cablesafe

007.83037/01.32.01

All rights reserved.

No part of this publication may be reproduced and/or published by print, photoprint, microfilm or any other means without the previous written consent of TNO.

In case this report was drafted on instructions, the rights and obligations of contracting parties are subject to either the Standard Conditions for Research Instructions given to TNO, or the relevant agreement concluded between the contracting parties. Submitting the report for inspection to parties who have a direct interest is permitted.

© 2004 TNO

Contents

1 .	Introduction	
2	Investigation and results	3
3	Conclusion	

1 Introduction

By order of Westmark B.V, Woudenberg (NL) TNO Industrial Technology carried out an investigation to the strength of three types of Cablesafe. On behalf of the investigation the following samples were received:

TNO-sample code Description

03.0721/1 6 pieces Cablesafe 6", inscription "not for lifting niet hijsen max 60

kg"

03.0721/2 6 pieces Cablesafe 9", inscription "not for lifting niet hijsen max 55

kg"

03.0721/3 6 pieces Cablesafe 12", inscription "not for lifting niet hijsen max

190 kg"

The investigation was carried out in week 49, 2003.

2. Investigation and results

The determination of the breaking force per type of Cablesafe was determined in fivefold under the following conditions:

Tensile speed

: 10 mm/min

Conditions

: (23±2) °C and (50±5)% relative humidity

The Cablesafe-specimens were hooked on both sides to a steel bar with a diameter of about 30 mm.

The results are summarised in table 1.

Table 1 Strength of three samples of Cablesafe

measurement	forrce at break [N]			
	sample 03.0721/1 Cablesafe max. 60 kg	sample 03.0721/2 Cablesafe max. 55 kg	sample 03.0721/3 Cablesafe max. 190 kg	
1	717	930	2137	
2	653	779	2302	
3	668	779	2107	
4	703	780	2131	
5	681	905	1959	
average	684	815	2127	
st. dev.	26	55	122	

3 Conclusion

On the basis of the results of the investigation it can be concluded that, with respect to the short-term breaking strength, all three types of Cablesafe fulfil the values mentioned on the Cablesafe.

Project manager

Head Product Evaluation

Vlieger

P.C.G. Langeveld B.Sc.

Holte Industri a.s