

Number: GZHT90233557

Applicant: MING RUI SHOES MATERIAL CO., LTD.
1055#, SHANG DONG ROAD,
FAZHAN DISTRICT, ECONOMIC DEVELOPMENT
DISTRICT, RUI AN
Attn: XUE QUAN

Date: Jul 07, 2011

Sample Description:

Seventeen (17) pairs of submitted sample said to be composite toe caps in Blue used for safety shoes.

Standard : EN 12568: 2010

Size : 6#, 7#, 8#, 9#, 10#, 11#

Date Period Received : From Jun. 27, 2011 To Jul. 07, 2011

Date Test Started : Jun. 27, 2011

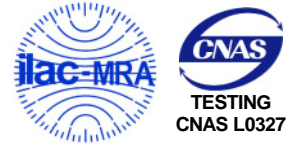
Test Result Please Refer To Attached Page(S).

Should you have any query on this report, you may contact at gzfootwear@intertek.com

Authorized By:
For Intertek Testing Services
Shenzhen Ltd.

A handwritten signature in black ink, appearing to read 'Andy Huang', is written over a horizontal line.

Huang Ning, Andy
Senior Manager



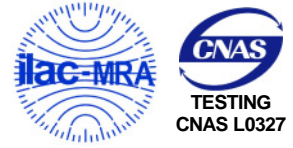
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Tests Conducted (As Requested By The Applicant)

1 Impact Resistance Of Toe Caps (EN 12568:2010,4.2.3,200 Joules):

			<u>Requirement</u>	<u>Pass/Fail</u>
<u>Size 6</u>	Left:	24.0 mm	Min. clearance 20.0 mm(#)	Pass
	Right:	24.0 mm	Min. clearance 20.0 mm(#)	Pass
<u>Size 7</u>	Left:	22.0 mm	Min. clearance 20.5 mm(#)	Pass
	Right:	22.0 mm	Min. clearance 20.5 mm(#)	Pass
<u>Size 8</u>	Left:	24.5 mm	Min. clearance 21.0 mm(#)	Pass
	Right:	23.5 mm	Min. clearance 21.0 mm(#)	Pass
<u>Size 9</u>	Left:	24.5 mm	Min. clearance 21.5 mm(#)	Pass
	Right:	25.0 mm	Min. clearance 21.5 mm(#)	Pass
<u>Size 10</u>	Left:	25.5 mm	Min. clearance 22.0 mm(#)	Pass
	Right:	25.0 mm	Min. clearance 22.0 mm(#)	Pass
<u>Size 11</u>	Left:	26.5 mm	Min. clearance 22.0 mm(#)	Pass
	Right:	27.0 mm	Min. clearance 22.0 mm(#)	Pass

Remark: # = In addition, the toe cap shall not develop sharp edges or any cracks passing through the material(i.e. through which light can be seen).



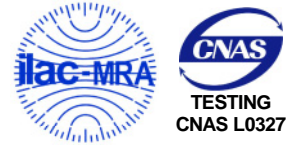
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Tests Conducted (As Requested By The Applicant)

2 Compression Resistance Of Toe Caps(EN 12568:2010,4.2.4,15 kN Load):

			<u>Requirement</u>	<u>Pass/Fail</u>
<u>Size 6</u>	Left:	27.0 mm	Min. clearance 20.0 mm(#)	Pass
	Right:	27.5 mm	Min. clearance 20.0 mm(#)	Pass
<u>Size 7</u>	Left:	27.0 mm	Min. clearance 20.5 mm(#)	Pass
	Right:	27.0 mm	Min. clearance 20.5 mm(#)	Pass
<u>Size 8</u>	Left:	27.0 mm	Min. clearance 21.0 mm(#)	Pass
	Right:	27.0 mm	Min. clearance 21.0 mm(#)	Pass
<u>Size 9</u>	Left:	28.0 mm	Min. clearance 21.5 mm(#)	Pass
	Right:	28.0 mm	Min. clearance 21.5 mm(#)	Pass
<u>Size 10</u>	Left:	28.0 mm	Min. clearance 22.0 mm(#)	Pass
	Right:	28.5 mm	Min. clearance 22.0 mm(#)	Pass
<u>Size 11</u>	Left:	28.5 mm	Min. clearance 22.0 mm(#)	Pass
	Right:	28.5 mm	Min. clearance 22.0 mm(#)	Pass

Remark: # = In addition, the toe cap shall not develop sharp edges or any cracks passing through the material (i.e. through which light can be seen).



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Tests Conducted (As Requested By The Applicant)

- 3 Impact Resistance After Chemical Aging Test Of Non-Metal Toe caps (EN 12568:2010,4.4,200 Joules):

			<u>Requirement</u>	<u>Pass/Fail</u>
Effect of Alkali(1 mol/l NaOH × 23°C × 24 Hours)				
<u>Size</u> 7	Left	21.0 mm	Min. clearance 20.5 mm(#)	Pass
	Right	22.5 mm	Min. clearance 20.5 mm(#)	Pass

Remark: # = In Addition, The Toe cap Shall Not Develop Sharp Edges Or Any Cracks Passing Through The Material(i.e. Through Which Light Can Be Seen).

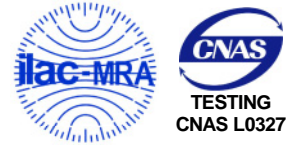
- 4 Impact Resistance After Chemical Aging Test Of Non-Metal Toe caps (EN 12568:2010,4.4,200 Joules):

			<u>Requirement</u>	<u>Pass/Fail</u>
Effect of acid(1 mol/l H ₂ SO ₄ × 23°C × 24 hours)				
<u>Size</u> 7	Left	21.5 mm	Min. clearance 20.5 mm(#)	Pass
	Right	21.5 mm	Min. clearance 20.5 mm(#)	Pass

Remark: # = In Addition, The Toe cap Shall Not Develop Sharp Edges Or Any Cracks Passing Through The Material(i.e., Through Which Light Can Be Seen).



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5 Impact Resistance After Thermal Aging Test Of Non-Metal Toe caps (EN 12568:2010,4.4,200 Joules):

			<u>Requirement</u>	<u>Pass/Fail</u>
Effect Of Low Temperature(-20°C × 4 hours, Then -6°C × 18 hours)				
<u>Size</u> 7	Right	22.5 mm	Min. clearance 20.5 mm(#)	Pass
	Right	22.0 mm	Min. clearance 20.5 mm(#)	Pass

Remark: # = In Addition, The Toe cap Shall Not Develop Sharp Edges Or Any Cracks Passing Through The Material(I.e. Through Which Light Can Be Seen).

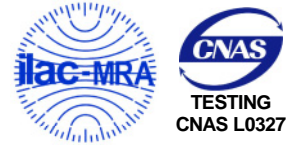
6 Impact Resistance After Thermal Aging Test Of Non-Metal Toe caps (EN 12568:2010,4.4,200 Joules):

			<u>Requirement</u>	<u>Pass/Fail</u>
Effect Of High Temperature(60°C×4 Hours, Then 45°C×18 Hours)				
<u>Size</u> 7	Left	21.5 mm	Min. clearance 20.5 mm(#)	Pass
	Right	20.5 mm	Min. clearance 20.5 mm(#)	Pass

Remark: # = In Addition, The Toe cap Shall Not Develop Sharp Edges Or Any Cracks Passing Through The Material(I.e. Through Which Light Can Be Seen).



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7 Impact Resistance After Chemical Aging Test Of Non-Metal Toe caps (EN 12568:2010,4.4,200 Joules):

				<u>Requirement</u>	<u>Pass/Fail</u>
Effect of fuel oil (2,2,4-Trimethylpentane × 23°C × 24 hours)					
<u>Size 7</u>	Left	21.5 mm	Min. clearance	20.5 mm(#)	Pass
	Right	22.0 mm	Min. clearance	20.5 mm(#)	Pass

Remark: # = In Addition, The Toe cap Shall Not Develop Sharp Edges Or Any Cracks Passing Through The Material(i.e. Through Which Light Can Be Seen).

Tests Conducted (As Requested By The Applicant)

