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Element Materials Technology Hamburg GmbH • Siemensstraße 17 • 73733 Esslingen

*Exquip Germany GmbH*  
*Mr. Kroll*  
*Auf dem Knuf 12*  
*59073 Hamm*

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Date	Report No.	Order No.
2017-11-29	1709145S	

## Solvent resistance Test

<b>Components</b>	<b>VX24 PIN</b>
<b>Solvent</b>	<b>Varsol / Trichlorethylene</b>
<b>Temperature</b>	<b>21°C</b>

### Contact Person:

**Mr. Timm Kroll, Exquip Germany GmbH**  
**Mr. Jan-Pit Kroll, Exquip Germany GmbH**

### Reporting:

**Mrs. Petra Skrzypczak, Element Materials Hamburg GmbH, Laboratory Stuttgart**  
**Mr. Sven Gieseler, Operations Manager Laboratory Stuttgart**

## 1 Tests

### 1.1 Solvent resistance Test

The procedure was done according customer specification.

## I0255 Protector VX24

**Solvent:** Varsol  
**Temperature:** 21 °C  
**Remark:** Testing the complete component

### Weight

Weight before Test start	(g)	604,151
Weight after 3 h Test	(g)	605,462
Weight after 24 h Test	(g)	606,282
Increase in weight after 3 h	(g)	1,311
Increase in weight after 24 h	(g)	2,131
<b>Evaluation</b>		---

### Hardness

Hardness Shore A	Front		Lateral surface	
	SV	Average	SV	Average
Shore A before test start	98 - 97 - 98 99 - 99 - 95	98	98 - 99 - 98 97 - 99 - 95	98
Shore A after 3 h test	93 - 91 - 88 91 - 93 - 85	92	94 - 95 - 92 94 - 94 - 96	94
Shore A after 24 h test	93 - 95 - 94 90 - 88 - 95	92	94 - 96 - 90 95 - 97 - 86	93
Requirements change of hardness		≤ 10		≤ 10
Loss of hardness after 3 h		6		4
Loss of hardness after 24 h		6		5
<b>Evaluation</b>	passed			

Hardness Shore D	Front		Lateral surface	
	SV	Average	SV	Average
Shore D before test start	55 - 55 - 52 56 - 57 - 56	55	58 - 58 - 58 58 - 58 - 58	58
Shore D after 3 h test	53 - 53 - 52 54 - 54 - 55	54	55 - 56 - 57 56 - 54 - 51	55
Shore D after 24 h test	50 - 49 - 51 50 - 49 - 53	50	55 - 55 - 54 54 - 54 - 56	55
Requirements change of hardness		≤ 10		≤ 10
Loss of hardness after 3 h		1		3
Loss of hardness after 24 h		5		3
<b>Evaluation</b>	passed			

### Complete component before test start (I0255)



### Complete component after 3 h (I0255)



### Complete component after 24 h (I0255)



## I0257 Protector VX24

**Solvent:** Trichlorethylene  
**Temperature:** 21 °C  
**Remark:** Testing the complete component

### Weight

Weight before Test start	(g)	600,479
Weight after 3 h Test	(g)	613,191
Increase in weight after 3 h	(g)	12,712
<b>Evaluation</b>		---

### Hardness

Hardness Shore A	Front		Lateral surface	
	SV	Average	SV	Average
Shore A before test start	93 - 94 -94 92 - 94 -95	94	96 - 96 -98 98 - 99 -96	97
Shore A after 3 h test	86 - 85 -87 89 - 85 -88	87	94 - 96 -98 96 - 96 -97	96
Requirements change of hardness		≤ 10		≤ 10
Loss of hardness after 3 h		7		1
<b>Evaluation</b>	passed			

Hardness Shore D	Front		Lateral surface	
	SV	Average	SV	Average
Shore D before test start	52 - 55 - 57 52 - 54 - 52	54	58 - 58 - 59 59 - 58 - 59	59
Shore D after 3 h test	43 - 40 - 44 50 - 45 - 48	45	50 - 52 - 51 48 - 49 - 51	50
Requirements change of hardness		≤ 10		≤ 10
Loss of hardness after 3 h		9		9
<b>Evaluation</b>	passed			

**Complete component before test start (I0257)****Complete component after 3 h (I0257)****Summary**

The components were completely immersed in the test solution with a defined temperature, the change in weight was measured and documented. The determination of the volume was not possible because the structure of the component was too complex. Therefore the weight change was measured. Additionally we have tested the hardness of the components in Shore A and D before and after the solvent test. The change in hardness was evaluated and the visual change has been documented.

**Petra Skrzypczak**Element Materials Technology Stuttgart  
+49 (0) 711 918949-13  
[petra.skrzypczak@element.com](mailto:petra.skrzypczak@element.com)**Sven Gieseler**Element Materials Technology Stuttgart  
+49 (0) 711 918949-14  
[sven.gieseler@element.com](mailto:sven.gieseler@element.com)