

## Hardness of the film

The film hardness of ROVAL series is not initially hard, but it has the property that the hardness is improved by exposure.

<p>[ Test method ]</p> <p><b>Scratch hardness (Pencil method) JIS-K5600-5-4 1999</b></p> <p style="text-align: center;">- Pencil hardness -</p> <p>(Soft) ◀ 6B, 5B, 4B, 3B, 2B, B, HB, F, H, 2H, 3H, 4H, 5H, 6H ▶ (Hard)</p>	
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[ Test result ]

Product name	Before exposure	After 12 months
ROVAL	B	F
EPO ROVAL	B	H
ROVAL SILVER	3B	2B
AQUA ROVAL	HB	H

<p>[ Test method ]</p> <p><b>Rotating abrasive rubber wheel method JIS K5600-5-9 1999</b></p> <p>Abrasion wheel : CS-17</p> <p>Number of rotations : 1000 times</p> <p>Load : 4.9N(500g) x 2</p>	
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Product name	Abrasion loss	
	Before exposure	After 3 months
ROVAL	238.6mg	113.3mg
EPO ROVAL	297.4mg	188.1mg
ROVAL SILVER	274.2mg	170.1mg
AQUA ROVAL	113.1mg	78.2mg