

Heat and cold resistance

We conducted some heat and cold resistance tests. The test results are as follows.

| Product name | Heat resistance | cool-heat cycling *1 |
|--------------|------------------------------------|---|
| EPO ROVAL | 300°C x 24 hours No abnormality | (-30°C x 5 hours + 10°C x 1 hour) x 72 cycle No abnormality |
| ROVAL | 170°C x 24 hours No abnormality | |
| ROVAL ALPHA | | |
| ROVAL SILVER | | |
| AQUA ROVAL | | |

*1 : Conform to JIS K5600-7-4 1999, Humidity and cool-heat cycling test

| Product name | Cold resistance *2 |
|--------------|--------------------------------------|
| EPO ROVAL | -60°C x 1008 hours No abnormality |
| ROVAL | |
| ROVAL ALPHA | |
| ROVAL SILVER | |
| AQUA ROVAL | |

*2 : Conform to JIS K5400-5-1 1990, Low temperature stability

| Product name | freeze-thaw resistant *3 |
|--------------|--|
| ROVAL | 3 hours of freezing (-35°C) 3 hours of hot baking (50°C) 18 hours of immersion in water (23°C) x 15 cycle No abnormality |

*3 : Conform to GB/T 9755-2001, freeze-thaw resistant of film