**Non-Uniform Roughness**

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| **For PDMS (10:1)** | | **Contact Angle** | | | | **Surface Tension** | |
| Reading 1 | | Reading 2 | | Reading 1 | Reading 2 |
| Left | Right | Left | Right |
| 1. | Plain | 99.6 | 100.6 | 96.7 | 95.9 | 32.5667 | 27.78866 |
| 2. | Fine Roughness | 126.8 | 126.2 | 119.3 | 120.6 | 63.1031 | 56.14497 |
| 3. | Coarse Roughness | 109.9 | 109.8 | 107.2 | 107.7 | 44.51989 | 41.63078 |

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| 1. **Fine Roughness** | **(b) Coarse Roughness** |

**Uniform Patterned Roughness**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **For PDMS (10:1)** | | | **Contact Angle** | | | | **Surface Tension** | |
| Reading 1 | | Reading 2 | | Reading 1 | Reading 2 |
| Left | Right | Left | Right |
| 1. | Plain | | 109.9 | 110 | 121.7 | 122.7 | 44.63936 | 58.59339 |
| 2. | Straight Pattern | Fine | 129 | 129.9 | 130.7 | 131.6 | 66.05746 | 67.70477 |
| Coarse | 123.3 | 124.3 | 119.1 | 120.7 | 60.29832 | 56.08991 |
| Coarser | 135.9 | 137.4 | 133.7 | 134.1 | 72.73827 | 70.27965 |
| 3. | Inclined Pattern | Fine |  |  |  |  |  |  |
| Coarse | 106 | 106.9 | 121.9 | 122.1 | 40.4154 | 58.37812 |
| Coarser |  |  |  |  |  |  |
| 4. | Cross Pattern | Fine | 130.2 | 130.2 | 130.4 | 130.9 | 66.78932 | 67.22458 |
| Coarse | 128.7 | 129.3 | 127.3 | 128.1 | 65.61452 | 64.31917 |
| Coarser | 116.5 | 117.8 | 116.4 | 113.7 | 53.02021 | 50.62418 |

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| **Image** | **Name** |
|  | **Coarser straight pattern** |
|  | **Coarse straight pattern** |
|  | **Fine straight pattern** |
|  | **Coarser Inclined pattern** |
|  | **Coarse inclined pattern** |
|  | **Fine inclined pattern** |
|  | **Coarser cross pattern** |
|  | **Coarse cross pattern** |
|  | **Fine cross pattern** |