

## 外部データファイルのフォーマット

インプット条件の外部データファイル（ “ InputData.txt ” ）のフォーマットについて、以下に記す。

|        |    |  |              |
|--------|----|--|--------------|
| 行<br>数 | 1  | Heat Capacity of Polymer (J/g.K)                               | = 2.12       |
|        | 2  | Density of Polymer (g/cm <sup>3</sup> )                        | = 1.083      |
|        | 3  | Heat Capacity of Solvent-1 (J/g.K)                             | = 2.12       |
|        | 4  | Heat of Vaporization of Solvent-1 (J/g)                        | = 360.0      |
|        | 5  | Diffusion Coefficient of Solvent-1 in Air (cm <sup>2</sup> /s) | = 0.0849     |
|        | 6  | Vapor Pressure Parameter A of Solvent-1                        | = 6.95464    |
|        | 7  | Vapor Pressure Parameter B of Solvent-1                        | = 1344.8     |
|        | 8  | Vapor Pressure Parameter C of Solvent-1                        | = 219.482    |
|        | 9  | Density of Solvent-1 (g/cm <sup>3</sup> )                      | = 0.86       |
|        | 10 | Molecular Weight of Solvent-1                                  | = 92.13      |
|        | 11 | Heat Capacity of Solvent-2 (J/g.K)                             | = 2.12       |
|        | 12 | Heat of Vaporization of Solvent-2 (J/g)                        | = 435.0      |
|        | 13 | Diffusion Coefficient of Solvent-2 in Air (cm <sup>2</sup> /s) | = 0.119      |
|        | 14 | Vapor Pressure Parameter A of Solvent-2                        | = 6.99514    |
|        | 15 | Vapor Pressure Parameter B of Solvent-2                        | = 1202.29    |
|        | 16 | Vapor Pressure Parameter C of Solvent-2                        | = 226.25     |
|        | 17 | Density of Solvent-2 (g/cm <sup>3</sup> )                      | = 0.88       |
|        | 18 | Molecular Weight of Solvent-2                                  | = 72.11      |
|        | 19 | Heat Capacity of Base Film (J/g.K)                             | = 1.25       |
|        | 20 | Density of Base Film (g/cm <sup>3</sup> )                      | = 1.37       |
|        | 21 | Interaction Parameter 1p                                       | = 0.34       |
|        | 22 | Interaction Parameter 2p                                       | = 0.354      |
|        | 23 | Interaction Parameter 12                                       | = 1.000      |
|        | 24 | Mass Trans. Coeff. Correct. Param. Keff1                       | = 1.50       |
|        | 25 | Mass Trans. Coeff. Correct. Param. Keff2                       | = 1.50       |
|        | 26 | Diffusion Coeff. Correct. Factor Fter1                         | = 1.0        |
|        | 27 | Diffusion Coeff. Correct. Factor Fter2                         | = 1.0        |
|        | 28 | SOLVENT-1/POLYMER F1   | = 0.00349    |
|        | 29 | SOLVENT-1/POLYMER F2   | = -2635.0    |
|        | 30 | SOLVENT-1/POLYMER F3   | = -0.8506    |
|        | 31 | SOLVENT-1/POLYMER F4   | = -0.09378   |
|        | 32 | SOLVENT-1/POLYMER F5   | = -5.87189E2 |
|        | 33 | SOLVENT-1/POLYMER F6   | = -1.88317E4 |
|        | 34 | SOLVENT-1/POLYMER F7   | = -2.64963E5 |
|        | 35 | SOLVENT-1/POLYMER F8   | = -1.87481E6 |
|        | 36 | SOLVENT-1/POLYMER F9   | = -7.03502E6 |
|        | 37 | SOLVENT-1/POLYMER F10  | = -1.33504E7 |
|        | 38 | SOLVENT-1/POLYMER F11  | = -1.01071E7 |
|        | 39 | SOLVENT-2/POLYMER F1   | = 0.001316   |
|        | 40 | SOLVENT-2/POLYMER F2   | = -2392.0    |
|        | 41 | SOLVENT-2/POLYMER F3   | = -0.7017    |
|        | 42 | SOLVENT-2/POLYMER F4   | = -0.07954   |
|        | 43 | SOLVENT-2/POLYMER F5   | = -6.01069E2 |
|        | 44 | SOLVENT-2/POLYMER F6   | = -2.11357E4 |
|        | 45 | SOLVENT-2/POLYMER F7   | = -3.30765E5 |
|        | 46 | SOLVENT-2/POLYMER F8   | = -2.58415E6 |
|        | 47 | SOLVENT-2/POLYMER F9   | = -1.06244E7 |
|        | 48 | SOLVENT-2/POLYMER F10  | = -2.19477E7 |
|        | 49 | SOLVENT-2/POLYMER F11  | = -1.79934E7 |
|        | 50 | Increment of z (m)   | = 5.0        |
|        | 51 | Number of Layers   | = 20         |
|        | 52 | Initial Coating Thickness (cm)                                 | = 0.005770   |
|        | 53 | Initial Composition of Solvent 1 (g/cm <sup>3</sup> )          | = 0.3210     |
|        | 54 | Initial Composition of Solvent 2 (g/cm <sup>3</sup> )          | = 0.3210     |
|        | 55 | Base Film Thickness (cm)                                       | = 0.0035560  |
|        | 56 | Web Speed (m/s)  | = 1.000      |
|        | 57 | Initial Temperature ( )  | = 30.00      |
|        | 58 | [Zone 1] Outer Temperature ( )                                 | = 60.0       |
|        | 59 | [Zone 1] Zone Length (m)                                       | = 20.0       |
|        | 60 | [Zone 1] Solvent-1 Absolute Humidity                           | = 0.0        |
|        | 61 | [Zone 1] Solvent-2 Absolute Humidity                           | = 0.0        |
|        | 62 | [Zone 1] Base-side Heat Trans. Coeff. (W/cm <sup>2</sup> .K)   | = 0.0009228  |
|        | 63 | [Zone 1] Coat-side Heat Trans. Coeff. (W/cm <sup>2</sup> .K)   | = 0.0010944  |

見出し部分

数値部分

**行数：** 第1 行目から始めて、計141行とする。すなわち、行数はサンプルの  
“ InputData.txt ” 通りとし、途中に空行等を入れないこと。また、項  
目の順番も入れ替えないこと。

**見出し部分：** 最後に必ず半角の “ = ” を記入のこと。その他は変更可。

**数値部分：** 数値の前後に半角スペースを入れることは可であるが、全角スペースは不可。

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