



## Windform materials Water Absorption Test results (ASTM D 570-98 Test Method)

Test Method : ASTM D 570-98 (Reapproved 2010)

Sample Preparation : Tested as received

Sample Conditioning : Dried 24 hours @ 50°C

Immersion Type : Deionized Water at 23°C

Immersion Length : 24 hours

Significance : ASTM D570 specifies that weights be measured to 0.001g and change be calculated to the nearest 0.01%

| Sample Name     | Specimen Number | Diameter (in) | Thickness (in) | Initial Weight (g) | Final Weight (g) | Change (g) | Change (%) |
|-----------------|-----------------|---------------|----------------|--------------------|------------------|------------|------------|
| Windform LX 2.0 | 1               | 1.996         | 0.127          | 8.366              | 8.377            | 0.011      | 0.13       |
|                 | 2               | 1.997         | 0.128          | 8.448              | 8.459            | 0.011      | 0.13       |
|                 | 3               | 1.998         | 0.127          | 8.462              | 8.472            | 0.010      | 0.12       |
|                 | Average         |               |                |                    |                  |            | 0.011      |
| Windform XT 2.0 | 1               | 2.001         | 0.126          | 7.171              | 7.179            | 0.008      | 0.11       |
|                 | 2               | 1.997         | 0.124          | 7.023              | 7.031            | 0.008      | 0.11       |
|                 | 3               | 2.004         | 0.128          | 7.253              | 7.259            | 0.006      | 0.08       |
|                 | Average         |               |                |                    |                  |            | 0.007      |
| Windform GT     | 1               | 1.998         | 0.127          | 7.850              | 7.858            | 0.008      | 0.10       |
|                 | 2               | 1.995         | 0.126          | 7.736              | 7.744            | 0.008      | 0.10       |
|                 | 3               | 1.997         | 0.128          | 7.920              | 7.928            | 0.008      | 0.10       |
|                 | Average         |               |                |                    |                  |            | 0.008      |
| Windform SP     | 1               | 1.995         | 0.129          | 7.085              | 7.092            | 0.007      | 0.10       |
|                 | 2               | 1.995         | 0.130          | 7.305              | 7.312            | 0.007      | 0.10       |
|                 | 3               | 1.995         | 0.132          | 7.350              | 7.357            | 0.007      | 0.10       |
|                 | Average         |               |                |                    |                  |            | 0.007      |

$$\% \text{ Change} = [ ( \text{Final Weight} - \text{Initial Weight} ) / \text{Initial Weight} ] \times 100$$

Water Absorption (24 Hour Method) Test has been carried out by Intertek Plastics Technology Laboratories on Windform samples supplied by CRP USA.

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