

**RTP 600 HB**

ABS

RTP Company

| <b>Processing/Physical Characteristics</b> | <b>Value</b> | <b>Unit</b> | <b>Test Standard</b> |
|--|--------------|-------------|----------------------|
| <b>ASTM Data</b>                           |              |             |                      |
| Melt Flow Index, MFI                       | <b>4.5</b>   | g/10min     | ASTM D 1238          |
| Temperature                                | <b>230</b>   | °C          | -                    |
| Load                                       | <b>3.8</b>   | kg          | -                    |
| Mold Shrinkage, MD                         | <b>0.005</b> | mm/mm       | ASTM D 955           |

| <b>Mechanical properties</b> | <b>Value</b> | <b>Unit</b> | <b>Test Standard</b> |
|------------------------------|--------------|-------------|----------------------|
| <b>ASTM Data</b>             |              |             |                      |
| Tensile Modulus              | <b>2413</b>  | MPa         | ASTM D 638           |
| Tensile Strength             | <b>42.7</b>  | MPa         | ASTM D 638           |
| Flexural Modulus             | <b>2413</b>  | MPa         | ASTM D 790           |
| Flexural Strength            | <b>68.9</b>  | MPa         | ASTM D 790           |
| Izod Impact notched, 1/8 in  | <b>294</b>   | J/m         | ASTM D 256           |

| <b>Thermal properties</b> | <b>Value</b> | <b>Unit</b> | <b>Test Standard</b> |
|---------------------------|--------------|-------------|----------------------|
| <b>ASTM Data</b>          |              |             |                      |
| UL 94 Flame rating        | <b>HB</b>    | -           | UL 94                |
| Thickness tested          | <b>1.59</b>  | mm          | -                    |
| DTUL @ 66 psi             | <b>102</b>   | °C          | ASTM D 648           |
| DTUL @ 264 psi            | <b>98.9</b>  | °C          | ASTM D 648           |

| <b>Other properties</b> | <b>Value</b> | <b>Unit</b>       | <b>Test Standard</b> |
|-------------------------|--------------|-------------------|----------------------|
| Water Absorption, 24hr  | <b>0.3</b>   | %                 | ASTM D 570           |
| Density                 | <b>1060</b>  | kg/m <sup>3</sup> | ASTM D 792           |
| Moisture Content        | <b>0.1</b>   | %                 | -                    |

| <b>Processing Recommendation Injection Molding</b> | <b>Value</b>      | <b>Unit</b> | <b>Test Standard</b> |
|--|-------------------|-------------|----------------------|
| Pre-drying - Temperature                           | <b>82.2</b>       | °C          | -                    |
| Pre-drying - Time                                  | <b>2</b>          | h           | -                    |
| Melt temperature                                   | <b>204 - 238</b>  | °C          | -                    |
| Mold temperature                                   | <b>62.8 - 85</b>  | °C          | -                    |
| Injection pressure                                 | <b>68.9 - 103</b> | MPa         | -                    |

**Characteristics****Processing**

Injection Molding

**Regional Availability**

North America, Europe, Asia Pacific