



**NORYL™ Resin HM3020H**  
**Asia Pacific: COMMERCIAL**

PPE+PS GF+MF 30% filled, FR V-1, high flow

| TYPICAL PROPERTIES <sup>1</sup>   | TYPICAL VALUE     | Unit                | Standard             |
|-----------------------------------|-------------------|---------------------|----------------------|
| <b>MECHANICAL</b>                 |                   |                     |                      |
| Tensile Stress, yield             | 1170              | kgf/cm <sup>2</sup> | SABIC - Japan Method |
| Tensile Strain, break             | 4 - 6             | %                   | SABIC - Japan Method |
| Flexural Stress                   | 1490              | kgf/cm <sup>2</sup> | ASTM D 790           |
| Flexural Modulus                  | 80900             | kgf/cm <sup>2</sup> | ASTM D 790           |
| Hardness, Rockwell M              | 88                | -                   | ASTM D 785           |
| <b>IMPACT</b>                     |                   |                     |                      |
| Izod Impact, notched, 23°C        | 5                 | cm-kgf/cm           | ASTM D 256           |
| <b>THERMAL</b>                    |                   |                     |                      |
| HDT, 1.82 MPa, 6.4 mm, unannealed | 125               | °C                  | ASTM D 648           |
| CTE, -30°C to 30°C                | 2.4E-05 - 3.4E-05 | 1/°C                | TMA                  |
| <b>PHYSICAL</b>                   |                   |                     |                      |
| Specific Gravity                  | 1.33              | -                   | ASTM D 792           |
| Water Absorption, 24 hours        | 0.06              | %                   | ASTM D 570           |
| Mold Shrinkage, flow, 3.2 mm (5)  | 0.25 - 0.3        | %                   | SABIC Method         |
| Melt Flow Rate, 300°C/2.16 kgf    | 17.7              | g/10 min            | ASTM D 1238          |
| <b>ELECTRICAL</b>                 |                   |                     |                      |
| Surface Resistivity               | 1.E+16            | Ohm                 | ASTM D 257           |