



# OmniPro™ HPP GRC25 CBFR0

25% Glass Reinforced, Chemically Coupled, Chlorine & Bromine Free, Flame Resistant, Polypropylene

| PHYSICAL  | Units             | ASTM/ISO Procedure | English       | Metric |
|---|-------------------|--------------------|---------------|--------|
| Melt Flow   | g/10 min.         | D1238              | 8             | 8      |
| Specific Gravity                                  |                   | D792               | 1.22          | 1.22   |
| Filler/Reinforcement                              | %                 | D2584              | 25            | 25     |
| <b>IMPACT</b>                                     |                   |                    |               |        |
| Izod Impact Resistance<br>Notched 1/8" bar, 73 °F | ft.-lbs/in. (J/m) | D256               | 1             | 53     |
| <b>MECHANICAL</b>                                 |                   |                    |               |        |
| Tensile Strength<br>At Yield, 73 °F               | psi (MPa)         | D638               | 8,600         | 59     |
| Tensile Elongation                                | %                 | D638               | 3             | 3      |
| Flexural Modulus                                  | psi (MPa)         | D790               | 975,000       | 6,722  |
| Flexural Strength                                 | psi (MPa)         | D790               | 14,500        | 100    |
| <b>THERMAL</b>                                    |                   |                    |               |        |
| Deflection Temperature<br>1/8" bar, 66 psi        | °F (°C)           | D648               | -             | -      |
| 1/8" bar, 264 psi                                 | °F (°C)           | D648               | 290           | 143    |
| <b>FLAMMABILITY</b>                               |                   |                    |               |        |
| Flame Resistance<br>*Omni Internal Testing        | .125"             | UL94               | HB*           | HB*    |
| <b>RECOMMENDED PROCESSING CONDITIONS</b>          |                   |                    |               |        |
| Drying Temperature                                |                   |                    | N/A           |        |
| Drying Time                                       |                   |                    | N/A           |        |
| Maximum Moisture                                  |                   |                    | N/A           |        |
| Rear Zone(s)                                      |                   |                    | 400 to 480 °F |        |
| Middle Zone(s)                                    |                   |                    | 420 to 500 °F |        |
| Front Zone(s)                                     |                   |                    | 420 to 500 °F |        |
| Nozzle  |                   |                    | 420 to 500 °F |        |
| Mold Temperature                                  |                   |                    | 80 to 140 °F  |        |
| Melt Temperature                                  |                   |                    | 420 to 500 °F |        |
| Back Pressure                                     |                   |                    | 50 to 100 psi |        |

Values are based on natural or black materials unless otherwise noted. Properties and values herein are based on laboratory test specimens and should not be used to establish minimum specification limits or fabricate tooling.

Omni does not guarantee the accuracy of this information or the suitability of this product in any given application or usage situation.