

# HYLON® N2030HL BK

Polyamide 6

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## Product Description

PA 6, 30% Glass-fiber, Heat Stabilized, Lubricated, Black Color

| Property  | Test Method | Units             | Dry       | Conditioned 50% RH |
|---|-------------|-------------------|-----------|--------------------|
| <b>Physical</b>                                     |             |                   |           |                    |
| Specific Gravity                                    | ISO 1183    | –                 | 1.37      | –                  |
| Water Absorption<br>(24 hr. Immersed)               | ISO 62      | %                 | 0.8       | –                  |
| Shrinkage<br>(Flow Direction, 1/8 in.) <sup>1</sup> | ISO 294-4   | %                 | 0.3 – 0.5 | –                  |
| <b>Mechanical</b>                                   |             |                   |           |                    |
| Strength at Break                                   | ISO 527-1   | MPa               | 155       | 93                 |
| Strain at Break                                     | ISO 527-1   | %                 | 2.0       | 5.0                |
| Flexural Modulus                                    | ISO 178     | MPa               | 8900      | 5520               |
| Flexural Strength                                   | ISO 178     | MPa               | 258       | 160                |
| Notched Izod Impact (23°C)                          | ISO 180     | kJ/m <sup>2</sup> | 12        | 20                 |
| Notched Charpy Impact (23°C)                        | ISO 179     | kJ/m <sup>2</sup> | 12        | 20                 |
| <b>Thermal</b>                                      |             |                   |           |                    |
| Heat Deflection Temperature                         |             |                   |           |                    |
| 0.45 MPa  | ISO 75-2/B  | °C                | 220       | –                  |
| 1.80 MPa  | ISO 75-2/A  | °C                | 210       | –                  |
| <b>Flammability</b>                                 |             |                   |           |                    |
| Flammability Classification                         | UL 94       |                   |           |                    |
| 1.5 mm  |             | –                 | HB        | –                  |
| 3.0 mm  |             | –                 | -         | –                  |