



# PoliXL™ PCM18BK

PC, Melt Index 18, Black

| Physical                        | Nominal Value (English) | Nominal Value (SI) | Test Method |
|---------------------------------|-------------------------|--------------------|-------------|
| Specific Gravity                | 1.2 g/cc                | 1.2 g/cc           | D792        |
| Mold Shrinkage                  |                         |                    | D955        |
| Parallel: 23 °C                 | -                       | -                  |             |
| Perpendicular: 23°C             | -                       | -                  |             |
| Melt Flow Rate (2.16kg, 230 °C) | 18 g/10min              | 18 g/10min         | D1238       |
| Ash (Glass-fiber)               | -                       | -                  | D2584       |

| Mechanical               | Nominal Value (English) | Nominal Value (SI) | Test Method |
|--------------------------|-------------------------|--------------------|-------------|
| Tensile Strength (Break) | 9,000 psi               | 62 MPa             | D638        |
| Tensile Strain (Break)   | 70 %                    | 70 %               | D638        |
| Flexural Modulus         | 340,000 psi             | 2,340 MPa          | D790        |
| Flex Strength            | 14,000 psi              | 95 MPa             | D790        |

| Impact                                   | Nominal Value (English) | Nominal Value (SI)   | Test Method |
|--|-------------------------|----------------------|-------------|
| Charpy Notched Impact Strength<br>23 °C  | -                       | -                    | ISO 179     |
| Charpy Unnotched Impact Strength<br>23°C | -                       | -                    | ISO 179     |
| Notched Izod Impact Strength<br>23°C     | 15 ft-lb/in             | 80 kJ/m <sup>2</sup> | D256        |

| Thermal                     | Nominal Value (English) | Nominal Value (SI) | Test Method |
|-----------------------------|-------------------------|--------------------|-------------|
| Heat Deflection Temperature |                         |                    | ISO 75      |
| 0.45 MPa Unannealed         | 275 °F                  | 135 °C             |             |
| 1.8 MPa Unannealed          | 266 °F                  | 130 °C             |             |
| Melting Temperature         | -                       | -                  | DSC         |

| Flammability | Nominal Value (English) | Nominal Value (SI) | Test Method |
|--------------|-------------------------|--------------------|-------------|
| 0.71 mm      | V-2                     | V-2                | UL94        |
| 1.50 mm      | V-2                     | V-2                | UL94        |
| 3.00 mm      | V-1                     | V-1                | UL94        |



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