



# Edgetek™ ET5200-5031 LD Black 70

## Polypropylene

### Key Characteristics

| General               |                                                     |                                              |                              |
|-----------------------|-----------------------------------------------------|----------------------------------------------|------------------------------|
| Material Status       | • Commercial: Active                                |                                              |                              |
| Regional Availability | • Europe                                            |                                              |                              |
| Features              | • Good Heat Resistance<br>• Good Stiffness          | • Good Strength<br>• Heat Stabilized         | • High Flow<br>• Low Density |
| Uses                  | • Appliance Components<br>• Automotive Applications | • Consumer Applications<br>• General Purpose | • Industrial Applications    |
| RoHS Compliance       | • RoHS Compliant                                    |                                              |                              |
| Appearance            | • Black                                             |                                              |                              |
| Forms                 | • Pellets                                           |                                              |                              |
| Processing Method     | • Injection Molding                                 |                                              |                              |

### Technical Properties <sup>1</sup>

| Physical                                  | Typical Value (English)   | Typical Value (SI)      | Test Method |
|-------------------------------------------|---------------------------|-------------------------|-------------|
| Density                                   | 0.890 g/cm <sup>3</sup>   | 0.890 g/cm <sup>3</sup> | ISO 1183    |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 14 g/10 min               | 14 g/10 min             | ISO 1133    |
| Mechanical                                | Typical Value (English)   | Typical Value (SI)      | Test Method |
| Tensile Modulus <sup>2</sup>              | 290000 psi                | 2000 MPa                | ISO 527     |
| Tensile Stress                            | 2900 psi                  | 20.0 MPa                | ISO 527-2/5 |
| Tensile Strain (Break)                    | 2.5 %                     | 2.5 %                   | ISO 527-2/5 |
| Impact                                    | Typical Value (English)   | Typical Value (SI)      | Test Method |
| Notched Izod Impact Strength              | 1.4 ft·lb/in <sup>2</sup> | 3.0 kJ/m <sup>2</sup>   | ISO 180/A   |
| Thermal                                   | Typical Value (English)   | Typical Value (SI)      |             |
| Melting Temperature                       | 320 to 329 °F             | 160 to 165 °C           |             |
| Flammability                              | Typical Value (English)   | Typical Value (SI)      | Test Method |
| Flame Rating (0.06 in (1.6 mm))           | HB                        | HB                      | UL 94       |

### Processing Information

| Injection          | Typical Value (English) | Typical Value (SI) |
|--------------------|-------------------------|--------------------|
| Drying Temperature | 176 °F                  | 80 °C              |
| Drying Time        | 1.0 hr                  | 1.0 hr             |
| Rear Temperature   | 347 to 365 °F           | 175 to 185 °C      |
| Middle Temperature | 356 to 374 °F           | 180 to 190 °C      |
| Front Temperature  | 365 to 383 °F           | 185 to 195 °C      |
| Nozzle Temperature | 383 to 392 °F           | 195 to 200 °C      |
| Mold Temperature   | 77 to 131 °F            | 25 to 55 °C        |

### Notes

<sup>1</sup> Typical values are not to be construed as specifications.

<sup>2</sup> 0.039 in/min (1.0 mm/min)