

# ExxonMobil™ PP7064L1

## Polypropylene Impact Copolymer

### Product Description

A nucleated impact copolymer resin with medium flow, high stiffness and antistatic properties. It is suitable for molding applications like consumer products, closures, containers, toys and rigid packaging applications.

### General

|                   |                                                                                             |                                                                                              |                                                                 |
|-------------------|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| Features          | <ul style="list-style-type: none"> <li>Antistatic</li> <li>Good Flow</li> </ul>             | <ul style="list-style-type: none"> <li>High Stiffness</li> <li>Highly Crystalline</li> </ul> | <ul style="list-style-type: none"> <li>Nucleated</li> </ul>     |
| Uses              | <ul style="list-style-type: none"> <li>Construction Applications</li> <li>Crates</li> </ul> | <ul style="list-style-type: none"> <li>Industrial Applications</li> <li>Pails</li> </ul>     | <ul style="list-style-type: none"> <li>Tool/Tote Box</li> </ul> |
| Appearance        | <ul style="list-style-type: none"> <li>Natural Color</li> </ul>                             |                                                                                              |                                                                 |
| Form(s)           | <ul style="list-style-type: none"> <li>Pellets</li> </ul>                                   |                                                                                              |                                                                 |
| Processing Method | <ul style="list-style-type: none"> <li>Compounding</li> </ul>                               | <ul style="list-style-type: none"> <li>Injection Molding</li> </ul>                          |                                                                 |

| Physical                                  | Typical Value (English) | Typical Value (SI)    | Test Based On     |
|-------------------------------------------|-------------------------|-----------------------|-------------------|
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 17 g/10 min             | 17 g/10 min           | ISO 1133          |
| Density                                   | 0.9 g/cm <sup>3</sup>   | 0.9 g/cm <sup>3</sup> | ExxonMobil Method |

| Mechanical               | Typical Value (English) | Typical Value (SI) | Test Based On |
|--------------------------|-------------------------|--------------------|---------------|
| Tensile Stress at Yield  | 3640 psi                | 25.1 MPa           | ISO 527-2/50  |
| Tensile Strain at Yield  | 3.8 %                   | 3.8 %              | ISO 527-2/50  |
| Tensile Modulus - Secant | 232000 psi              | 1600 MPa           | ISO 527-2/1   |
| Flexural Modulus         | 212000 psi              | 1460 MPa           | ISO 178       |

| Impact                                     | Typical Value (English)   | Typical Value (SI)    | Test Based On |
|--------------------------------------------|---------------------------|-----------------------|---------------|
| Notched Izod Impact Strength (73°F (23°C)) | 3.9 ft-lb/in <sup>2</sup> | 8.1 kJ/m <sup>2</sup> | ISO 180/1A    |
| Charpy Notched Impact Strength             |                           |                       | ISO 179/1eA   |
| -4°F (-20°C)                               | 2.1 ft-lb/in <sup>2</sup> | 4.5 kJ/m <sup>2</sup> |               |
| 32°F (0°C)                                 | 2.8 ft-lb/in <sup>2</sup> | 5.8 kJ/m <sup>2</sup> |               |
| 73°F (23°C)                                | 4.4 ft-lb/in <sup>2</sup> | 9.3 kJ/m <sup>2</sup> |               |

| Thermal                                | Typical Value (English) | Typical Value (SI) | Test Based On |
|----------------------------------------|-------------------------|--------------------|---------------|
| Melting Temperature (DSC)              | 324 °F                  | 162 °C             | ISO 3146      |
| Peak Crystallization Temperature (DSC) | 261 °F                  | 127 °C             | ISO 3146      |
| Heat Deflection Temperature (1.80 MPa) | 128 °F                  | 53.5 °C            | ISO 75-2/A    |
| Heat Deflection Temperature (0.45 MPa) | 214 °F                  | 101 °C             | ISO 75-2/B    |
| Vicat Softening Temperature            | 298 °F                  | 148 °C             | ISO 306/A50   |

| Hardness                 | Typical Value (English) | Typical Value (SI) | Test Based On |
|--------------------------|-------------------------|--------------------|---------------|
| Shore Hardness (Shore D) | 64                      | 64                 | ISO 868       |

