

# ExxonMobil™ PP7054L1

## Polypropylene Impact Copolymer

### Product Description

A nucleated impact copolymer resin with medium flow. 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>Good Flow</li> <li>Nucleated</li> </ul>                                                                                                                                                                       |
| Uses              | <ul style="list-style-type: none"> <li>Battery Cases</li> <li>Construction Applications</li> <li>Containers</li> <li>Crates</li> <li>Industrial Applications</li> <li>Pails</li> <li>Rigid Packaging</li> <li>Tool/Tote Box</li> <li>Toys</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> <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) | 16 g/10 min             | 16 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  | 3320 psi                | 22.9 MPa           | ISO 527-2/50  |
| Tensile Strain at Yield  | 4.6 %                   | 4.6 %              | ISO 527-2/50  |
| Tensile Modulus - Secant | 180000 psi              | 1240 MPa           | ISO 527-2/1   |
| Flexural Modulus         | 157000 psi              | 1080 MPa           | ISO 178       |

| Impact                                     | Typical Value (English)   | Typical Value (SI)    | Test Based On |
|--------------------------------------------|---------------------------|-----------------------|---------------|
| Notched Izod Impact Strength (73°F (23°C)) | 4.8 ft-lb/in <sup>2</sup> | 10 kJ/m <sup>2</sup>  | ISO 180/1A    |
| Charpy Notched Impact Strength             |                           |                       | ISO 179/1eA   |
| -4°F (-20°C)                               | 2.3 ft-lb/in <sup>2</sup> | 4.9 kJ/m <sup>2</sup> |               |
| 32°F (0°C)                                 | 3.1 ft-lb/in <sup>2</sup> | 6.6 kJ/m <sup>2</sup> |               |
| 73°F (23°C)                                | 5.2 ft-lb/in <sup>2</sup> | 11 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) | 252 °F                  | 122 °C             | ISO 3146      |
| Heat Deflection Temperature (1.80 MPa) | 123 °F                  | 50.3 °C            | ISO 75-2/A    |
| Heat Deflection Temperature (0.45 MPa) | 188 °F                  | 86.8 °C            | ISO 75-2/B    |
| Vicat Softening Temperature            | 293 °F                  | 145 °C             | ISO 306/A50   |

| Hardness                 | Typical Value (English) | Typical Value (SI) | Test Based On |
|--------------------------|-------------------------|--------------------|---------------|
| Shore Hardness (Shore D) | 62                      | 62                 | ISO 868       |

### Legal Statement

This product is not intended for use in medical applications and should not be used in any such applications.

Contact your ExxonMobil Chemical Customer Service Representative for potential food contact application compliance (e.g. FDA, EU, HPFB).