

# ExxonMobil™ PP7085E1

Polypropylene Impact Copolymer

ExxonMobil Chemical

## Message:

An impact-resistant copolymer resin containing a nucleating agent having high flowability, excellent rigidity/toughness balance and antistatic properties and thus good moldability. It is suitable for disposable household utensils, consumer goods, containers and other molding occasions as well as other hard packaging occasions.

| General Information |                        |
|---------------------|------------------------|
| Features            | Nucleated              |
|                     | Antistatic property    |
|                     | Controlled rheology    |
|                     | High liquidity         |
| Uses                | Tools/Parts Box        |
|                     | Industrial application |
|                     | Container              |
|                     | Barrel                 |
|                     | Hard packaging         |
| Appearance          | Natural color          |
| Forms               | Particle               |
| Processing Method   | Composite              |
|                     | Injection molding      |

| Physical                                  | Nominal Value | Unit              | Test Method  |
|-------------------------------------------|---------------|-------------------|--------------|
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 75            | g/10 min          | ISO 1133     |
| Hardness                                  | Nominal Value | Unit              | Test Method  |
| Durometer Hardness (Shore D)              | 61            |                   | ISO 868      |
| Mechanical                                | Nominal Value | Unit              | Test Method  |
| Tensile Modulus                           | 1150          | MPa               | ISO 527-2/1  |
| Tensile Stress (Yield)                    | 23.0          | MPa               | ISO 527-2/50 |
| Tensile Strain (Yield)                    | 5.0           | %                 | ISO 527-2/50 |
| Flexural Modulus                          | 1130          | MPa               | ISO 178      |
| Impact                                    | Nominal Value | Unit              | Test Method  |
| Charpy Notched Impact Strength            |               |                   | ISO 179/1eA  |
| -20°C                                     | 4.0           | kJ/m <sup>2</sup> | ISO 179/1eA  |
| 0°C                                       | 5.0           | kJ/m <sup>2</sup> | ISO 179/1eA  |
| 23°C                                      | 7.5           | kJ/m <sup>2</sup> | ISO 179/1eA  |
| Notched Izod Impact (23°C)                | 5.5           | kJ/m <sup>2</sup> | ISO 180/1A   |

| Thermal                                | Nominal Value | Unit | Test Method |
|----------------------------------------|---------------|------|-------------|
| Heat Deflection Temperature            |               |      |             |
| 0.45 MPa, not annealed                 | 82.0          | °C   | ISO 75-2/B  |
| 1.8 MPa, not annealed                  | 50.0          | °C   | ISO 75-2/A  |
| Vicat Softening Temperature            | 147           | °C   | ISO 306/A50 |
| Melting Temperature (DSC)              | 161           | °C   | ISO 3146    |
| Peak Crystallization Temperature (DSC) | 123           | °C   | ISO 3146    |

#### Legal statement

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