

Moplen EP641P

Polypropylene Copolymer

PolyMirae

Message:

Moplen EP641P is a polypropylene impact copolymer manufactured using the Spheripol process. This grade is known for having an optimized balance of stiffness and toughness. Potential applications include injection molding of containers, housewares, crates and pails, and electrical appliance parts.

| General Information | | | |
|--|-------------------------|-------------------|-------------|
| Features | Rigid, good | | |
| | Impact copolymer | | |
| | Impact resistance, good | | |
| | Good toughness | | |
| Uses | Electrical appliances | | |
| | Household goods | | |
| | Container | | |
| | Barrel | | |
| | Loading box | | |
| Forms | Particle | | |
| Processing Method | Injection molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 0.900 | g/cm ³ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 20 | g/10 min | ASTM D1238 |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness (R-Scale) | 90 | | ASTM D785 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength (Yield) | 27.5 | MPa | ASTM D638 |
| Tensile Elongation (Yield) | 5.0 | % | ASTM D638 |
| Flexural Modulus | 1470 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact | | | ASTM D256 |
| -20°C | 49 | J/m | ASTM D256 |
| 23°C | 110 | J/m | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (0.45 MPa, Unannealed) | 110 | °C | ASTM D648 |
| Vicat Softening Temperature | 150 | °C | ASTM D1525 |

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