

Moplen RP440N

Polypropylene Random Copolymer

LyondellBasell Industries

Message:

Moplen RP440N is a polypropylene random copolymer. With its high clarity, good chemical resistance, and good balance of rigidity and impact performance, this grade is suitable for a variety of injection molding applications. Potential end uses products include food containers, housewares, fan blades, motorcylce battery cases.

| General Information | | | |
|--|--------------------------|-------------------|-------------|
| Features | Good Chemical Resistance | | |
| | Good Impact Resistance | | |
| | Good Processability | | |
| | High Clarity | | |
| | Medium Rigidity | | |
| | Random Copolymer | | |
| Uses | Battery Cases | | |
| | Containers | | |
| | Food Containers | | |
| | Household Goods | | |
| Forms | Pellets | | |
| 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) | 11 | g/10 min | ASTM D1238 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength (Yield) | 33.0 | MPa | ASTM D638 |
| Tensile Elongation (Yield) | 11 | % | ASTM D638 |
| Flexural Modulus | 1400 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (23°C) | 37 | J/m | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (0.45 MPa, Unannealed) | 99.0 | °C | ASTM D648 |

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