



Moplen RP343N

Polypropylene, Random Copolymer

Product Description

Moplen RP343N is a polypropylene random copolymer manufactured using the Spheripol process. With its excellent gloss, clarity and flow, combined with well balanced mechanical properties, this grade is particularly suitable for injection molding. Potential end use applications include housewares and ISBM.

Moplen RP343N does meet FDA requirements for food contact under the Code of Federal Regulations in 21 CFR 177.1520, with the exception of cooking applications.

Product Characteristics

| | |
|--------------------------------------|--------------------------------------------------------------------------------------|
| Status | Commercial: Proprietary |
| Test Method used | ASTM |
| Availability | Asia-Pacific, Africa-Middle East, Latin America |
| Processing Methods | Injection Blow Molding, Injection Molding |
| Features | High Clarity, Random Copolymer, Good Flow, High Gloss, Low to No Odor, Good Strength |
| Typical Customer Applications | Blow Moulding Applications, Bottles For Consumer Goods, Containers, Housewares |

| Typical Properties | Method | Value | Unit |
|-------------------------------------------------------|-------------|-------|--------------------|
| Physical | | | |
| Density -Specific Gravity | ASTM D 792 | 0.9 | g/cm ³ |
| Melt Flow Rate (230°C/2.16kg) | ASTM D 1238 | 10 | g/10 min |
| <i>Note: ASTM D1238L</i> | | | |
| Mechanical | | | |
| Flexural Modulus | ASTM D 790 | 12000 | kg/cm ² |
| Tensile Strength @ Yield | ASTM D 638 | 300 | kg/cm ² |
| Tensile Elongation @ Yield | ASTM D 638 | 12 | % |
| Impact | | | |
| Notched Izod Impact | ASTM D 256 | | |
| (23 °C) | | 5 | kg-cm/cm |
| (-20 °C) | | 2 | kg-cm/cm |
| Hardness | | | |
| Rockwell Hardness (R Scale) | ASTM D 785 | 90 | |
| Thermal | | | |
| Heat deflection temperature at 0.46 N/mm ² | ASTM D 648 | 95 | °C |
| Optical | | | |
| Haze | ASTM D 1003 | 16 | % |

Additional Properties

grade obsoleted in 2005

Notes

Typical properties; not to be construed as specifications.