

MELT - 35

DENSITY - 0.903

PHM-35 is a certified prime grade Polypropylene designed for injection molding of light-weight and thin-walled applications. **PHM-35** processing temperature is 215° to 235°C with mold at 20° to 50°C. **PHM-35** complies with FDA regulation 21CFR 177.1520 and most international regulations concerning the use of Polypropylene in contact with food.

Features:

- Fast molding cycle
- Good dimensional stability
- Good processability
- Good surface finish
- High clarity
- High flow
- High tensile strength

Typical Applications:

- Long-flow path moldings
- Multi-cavity molds difficult to fill such as caps, closures and lids
- Housewares articles
- Containers
- Large flat trays

| PROPERTIES | ASTM | UNIT | VALUES |
|--|-------|-------------------|--------|
| PHYSICAL | | | |
| Density | D1505 | g/cm ³ | 0.903 |
| Melt Flow Rate (230°C, 2.16kg) | D1238 | g/10 min | 35 |
| MECHANICAL (INJECTION MOLD) | | | |
| Tensile Strength (Yield) | D638 | psi | 4600 |
| Tensile Elongation (Yield) | D638 | % | 12 |
| Flexural Modulus - 1% Secant | D790 | psi | 170k |
| Notched Izod Impact (73°F) | D256 | ft-lb/in | 0.60 |
| Rockwell Hardness (R-Scale) | D785 | | 83 |
| HDT Under Load (66psi, Unannealed, Injection Molded) | D648 | °F | 199 |
| Vicat Softening Temperature | D1525 | °F | 306 |