

M. Holland Company CP300 Polypropylene Copolymer

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene Copolymer

Material Notes:

Features: Medium Flow, High Impact Resistance, Good Stiffness
 Uses: Appliances, Business, Equipment, Tool/Tote Box, Toys
 Approvals: FDA
 21 CFR 177.1520 Processing Method: Injection Molding
 Information provided by M. Holland.

Order this product through the following link:

http://www.lookpolymers.com/polymer_M-Holland-Company-CP300-Polypropylene-Copolymer.php

| Physical Properties | Metric | English | Comments |
|---------------------|--|--|------------|
| Density | 0.900 g/cc | 0.0325 lb/in ³ | ASTM D1505 |
| Melt Flow | 8.0 g/10 min @Load 2.16 kg, Temperature 230 °C | 8.0 g/10 min @Load 4.76 lb, Temperature 446 °F | ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|------------|---------------|-----------------------------|
| Hardness, Rockwell R | 99 | 99 | ASTM D785 |
| Tensile Strength, Yield | 28.3 MPa | 4100 psi | Type I, 2 in/min; ASTM D638 |
| Elongation at Break | 160 % | 160 % | Type I, 2 in/min; ASTM D638 |
| Flexural Modulus | 1.34 GPa | 195 ksi | at 0.05 in/min; ASTM D790 |
| Izod Impact, Notched | 0.961 J/cm | 1.80 ft-lb/in | at 73°F; ASTM D256 |
| Gardner Impact | 28.24 J | 20.83 ft-lb | 0.125 in; ASTM D3029 |

| Thermal Properties | Metric | English | Comments |
|---|---------|---------|-----------------------|
| Deflection Temperature at 0.46 MPa (66 psi) | 98.9 °C | 210 °F | ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 51.7 °C | 125 °F | Unannealed; ASTM D648 |

| Descriptive Properties | Value | Comments |
|------------------------|---------|----------|
| Form | Pellets | |

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