

ColorRx® PC-1015

Americhem - Polycarbonate

General Information
Product Description

PC-1015 is a medium flow injection molding grade of polycarbonate. It is suitable for healthcare applications.

General

| | | | |
|-------------------|--|--|---|
| Material Status | • Commercial: Active | | |
| Availability | • Africa & Middle East • Asia Pacific | • Europe • Latin America | • North America |
| Features | • Autoclave Sterilizable • Biocompatible • E-beam Sterilizable | • Ethylene Oxide Sterilizable • Excellent Colorability • Heat Sterilizable | • Radiation Sterilizable • Steam Sterilizable |
| Uses | • Closures • Engineering Parts | • Housings • Industrial Parts | • Medical/Healthcare Applications • Surgical Instruments |
| Forms | • Pellets | | |
| Processing Method | • Injection Molding | | |

Properties ¹

| | Nominal Value | Unit | Test Method |
|---|------------------|----------|-------------|
| Physical | | | |
| Density / Specific Gravity | 1.20 | | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (300°C/1.2 kg) | 14 | g/10 min | ASTM D1238 |
| Molding Shrinkage - Flow (0.125 in) | 5.0E-3 to 7.0E-3 | in/in | ASTM D955 |
| Water Absorption (24 hr) | 0.12 | % | ASTM D570 |
| Mechanical | | | |
| Tensile Strength ² (Yield) | 9700 | psi | ASTM D638 |
| Tensile Elongation ² (Break) | 110 | % | ASTM D638 |
| Flexural Modulus ² | 330000 | psi | ASTM D790 |
| Impact | | | |
| Notched Izod Impact (73°F) | 16 | ft·lb/in | ASTM D256 |
| Hardness | | | |
| Rockwell Hardness (M-Scale) | 70 | | ASTM D785 |
| Thermal | | | |
| Deflection Temperature Under Load (264 psi, Unannealed, 0.250 in) | 270 | °F | ASTM D648 |

Notes
¹ Typical properties: these are not to be construed as specifications.

² 2.0 in/min
