

ColorRx® PCECO130RX

Americhem - Polycarbonate

General Information
Product Description

PCECO130RX is a high flow injection molding grade of polycarbonate with improved wear and friction. It consists of a non-halogenated FR system with UL flame rating of V-0 at 1.5 mm. Suitable for healthcare applications.

General

| | | | |
|-------------------|--|--|---|
| Material Status | <ul style="list-style-type: none"> Commercial: Active | | |
| Availability | <ul style="list-style-type: none"> Africa & Middle East Asia Pacific | <ul style="list-style-type: none"> Europe Latin America | <ul style="list-style-type: none"> North America |
| Features | <ul style="list-style-type: none"> Autoclave Sterilizable Biocompatible E-beam Sterilizable | <ul style="list-style-type: none"> Ethylene Oxide Sterilizable Excellent Colorability Heat Sterilizable | <ul style="list-style-type: none"> Radiation Sterilizable Steam Sterilizable |
| Uses | <ul style="list-style-type: none"> Closures Engineering Parts | <ul style="list-style-type: none"> Housings Industrial Parts | <ul style="list-style-type: none"> Medical/Healthcare Applications Surgical Instruments |
| Forms | <ul style="list-style-type: none"> Pellets | | |
| Processing Method | <ul style="list-style-type: none"> Injection Molding | | |

Properties ¹

| Physical | Nominal Value | Unit | Test Method |
|---|------------------|----------|-------------|
| Density / Specific Gravity | 1.18 | | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (300°C/1.2 kg) | 12 | g/10 min | ASTM D1238 |
| Molding Shrinkage - Flow (0.125 in) | 6.0E-3 to 8.0E-3 | in/in | ASTM D955 |
| Water Absorption (24 hr) | 0.12 | % | ASTM D570 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus ² | 320000 | psi | ASTM D638 |
| Tensile Strength ² (Yield) | 8100 | psi | ASTM D638 |
| Tensile Elongation ² (Yield) | 6.0 | % | ASTM D638 |
| Flexural Modulus | 300000 | psi | ASTM D790 |
| Flexural Strength (Yield) | 10500 | psi | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (73°F) | 12 | ft-lb/in | ASTM D256 |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness (M-Scale) | 70 | | ASTM D785 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (264 psi, Unannealed, 0.250 in) | 270 | °F | ASTM D648 |

Processing Information

| Injection | Nominal Value | Unit |
|------------------------|------------------|------|
| Drying Temperature | 250 | °F |
| Drying Time | 4.0 | hr |
| Processing (Melt) Temp | 580 to 600 | °F |
| Mold Temperature | 150 to 200 | °F |
| Back Pressure | 50.0 to 100 | psi |
| Screw Speed | 40 to 70 | rpm |
| Vent Depth | 1.0E-3 to 2.0E-3 | in |

