

Multibase Multi-Pro® 3019 CXUW Polypropylene

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

Calcium Carbonate Filler, 30% by weight. Features: Gloss, High Impact Resistance, Good UV Resistance, Good Forms: Pellets Processing

Methods: Injection Molding Uses: Furniture Lawn Equipment Information provided by Multibase

Order this product through the following link:

http://www.lookpolymers.com/polymer_Multibase-Multi-Pro-3019-CXUW-Polypropylene.php

| Physical Properties | Metric | English | Comments |
|-----------------------|-------------|---------------------------|------------|
| Density | 1.14 g/cc | 0.0412 lb/in ³ | ASTM D792 |
| Linear Mold Shrinkage | 0.010 cm/cm | 0.010 in/in | ASTM D955 |
| Melt Flow | 19 g/10 min | 19 g/10 min | ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|------------|----------------|-----------------|
| Tensile Strength, Yield | 26.9 MPa | 3900 psi | ASTM D638 |
| Elongation at Break | 90 % | 90 % | ASTM D638 |
| Flexural Yield Strength | 41.4 MPa | 6000 psi | ASTM D790 |
| Flexural Modulus | 1.86 GPa | 270 ksi | ASTM D790 |
| Izod Impact, Notched | 0.481 J/cm | 0.900 ft-lb/in | 73°F; ASTM D256 |
| Gardner Impact | 10.17 J | 7.500 ft-lb | ASTM D3029 |

| Thermal Properties | Metric | English | Comments |
|---|---------|---------|-----------------------|
| Deflection Temperature at 1.8 MPa (264 psi) | 60.0 °C | 140 °F | Unannealed; ASTM D648 |

| Processing Properties | Metric | English | Comments |
|---------------------------|----------------|---------------|----------|
| Rear Barrel Temperature | 188 - 216 °C | 370 - 420 °F | |
| Middle Barrel Temperature | 199 - 232 °C | 390 - 450 °F | |
| Front Barrel Temperature | 199 - 232 °C | 390 - 450 °F | |
| Nozzle Temperature | 193 - 227 °C | 380 - 440 °F | |
| Mold Temperature | 4.44 - 65.6 °C | 40.0 - 150 °F | |
| Drying Temperature | 93.3 °C | 200 °F | |
| Dry Time | | | |

| Processing Properties | 2 hour Metric | 2 hour English | Comments |
|-----------------------|-------------------|-------------------|----------|
| Back Pressure | 0.138 - 0.345 MPa | 20.0 - 50.0 psi | |
| Screw Speed | 40 - 100 rpm | 40 - 100 rpm | |

| Descriptive Properties | Value | Comments |
|------------------------|--------------------------|----------|
| Clamp Tonnage | 2-4 tons/in ² | |
| Screw L/D Ratio | 20:1 | |

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