

# Integra™ PC 5020 F1

Polycarbonate

PolySource, LLC

## Message:

High Flow, UV Stabilized Polycarbonate

| General Information |                    |  |  |
|---------------------|--------------------|--|--|
| UL YellowCard       | E326789-100167737  |  |  |
| Additive            | UV Stabilizer      |  |  |
| Features            | Good UV Resistance |  |  |
|                     | High Flow          |  |  |

| Physical                                 | Nominal Value | Unit              | Test Method |
|------------------------------------------|---------------|-------------------|-------------|
| Specific Gravity                         | 1.20          | g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (300°C/1.2 kg) | 23            | g/10 min          | ASTM D1238  |
| Water Absorption (23°C, 24 hr)           | 0.15          | %                 | ASTM D570   |

| Mechanical                      | Nominal Value | Unit | Test Method |
|---------------------------------|---------------|------|-------------|
| Tensile Strength (Yield, 23°C)  | 64.0          | MPa  | ASTM D638   |
| Tensile Elongation (Break)      | 90            | %    | ASTM D638   |
| Flexural Modulus (23°C)         | 1960          | MPa  | ASTM D790   |
| Flexural Strength (Yield, 23°C) | 86.2          | MPa  | ASTM D790   |

| Impact                              | Nominal Value | Unit | Test Method |
|-------------------------------------|---------------|------|-------------|
| Notched Izod Impact (23°C, 6.35 mm) | 750           | J/m  | ASTM D256   |

| Thermal                                                 | Nominal Value | Unit | Test Method |
|---------------------------------------------------------|---------------|------|-------------|
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 130           | °C   | ASTM D648   |

| Flammability | Nominal Value | Test Method |  |
|--------------|---------------|-------------|--|
| Flame Rating |               | UL 94       |  |
| 1.59 mm      | V-2           |             |  |
| 3.18 mm      | V-2           |             |  |

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