# ELIX™ 5120

Polycarbonate + ABS

ELIX Polymers, S. L.

## Message:

PC/ABS blend, injection molding grade with excellent mechanical properties balance up to -40°C. Vicat B120 = 120°C
Benefits:
High flow
Very high impact up to -40°C
Low emission grade
UV stabilized grade
Good stability even with high humidity conditions
Low shrinkage
Good paintability
Thin-walled parts
Chemical Composition:
Thermoplastic polymer blend based on polycarbonate (PC) and acrylonitrile-butadiene-styrene (ABS).

| General Information | | | |
|---|---|---|---|
| Features | Good Stability | | |
| | Good UV Resistance | | |
| | High Flow | | |
| | High Impact Resistance | | |
| | Low Emissions | | |
| | Low Shrinkage | | |
| | Paintable | | |
| Appearance | Yellow | | |
| Forms | Pellets | | |
| **Physical** | **Nominal Value** | **Unit** | **Test Method** |
| Density (25°C) | 1.11 | g/cm³ | ISO 1183 |
| Melt Volume-Flow Rate (MVR) (260°C/5.0 kg) | 21.0 | cm³/10min | ISO 1133 |
| Molding Shrinkage [1] | | | |
| Across Flow | 0.65 to 0.75 | % | ISO 294-4 |
| Flow | 0.65 to 0.75 | % | ISO 2577 |
| Water Absorption | | | ISO 62 |
| Saturation, 23°C | 0.70 | % | |
| Equilibrium, 23°C, 50% RH | 0.20 | % | |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Modulus (23°C) | 2320 | MPa | ISO 527-2/1 |
| Tensile Stress (Yield, 23°C) | 50.0 | MPa | ISO 527-2/50 |
| Tensile Strain (Break, 23°C) | 28 | % | ISO 527-2/50 |
| Flexural Modulus [2] (23°C) | 2320 | MPa | ISO 178 |
| **Impact** | **Nominal Value** | **Unit** | **Test Method** |

| | | | |
|---|---|---|---|
| Notched Izod Impact Strength | | | ISO 180/1A |
| -40°C | 30 | kJ/m² | |
| -30°C | > 27 | kJ/m² | |
| 23°C | > 38 | kJ/m² | |
| **Thermal** | **Nominal Value** | **Unit** | **Test Method** |
| Heat Deflection Temperature | | | |
| 0.45 MPa, Unannealed | 120 | °C | ISO 75-2/B |
| 1.8 MPa, Unannealed | 101 | °C | ISO 75-2/A |
| Vicat Softening Temperature | 120 | °C | ISO 306/B120 |
| CLTE | | | ISO 11359-2 |
| Flow : 23 to 55°C | 8.0E-5 | cm/cm/°C | |
| Transverse : 23 to 55°C | 8.2E-5 | cm/cm/°C | |
| **Flammability** | **Nominal Value** | **Unit** | **Test Method** |
| Burning Rate [3] | < 80 | mm/min | ISO 3795 |
| Flame Rating (1.60 mm) | HB | | UL 94 |
| **Injection** | **Nominal Value** | **Unit** | **Test Method** |
| Processing (Melt) Temp | 260 | °C | |
| Mold Temperature | 80.0 | °C | |
| Injection Velocity | 40 | mm/sec | ISO 294 |
| **NOTE** | | | |
| 1. | 60x60x2mm | | |
| 2. | 2.0 mm/min | | |
| 3. | 150x105x1 mm | | |



## Recommended distributors for this material

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