

Duratron® T7130

Polyamide-imide

Quadrant Engineering Plastic Products

Message:

Duratron® T7130 is a Polyamide-imide (PAI) product filled with 30% graphite fiber. It can be processed by extrusion and is available in North America.

Characteristics include:

Flame Rated

Chemical Resistant

| General Information | | | |
|---|-------------------------------------|---------------------------------------|-----------------|
| Filler / Reinforcement | Graphite Fiber,30% Filler by Weight | | |
| Features | Acid Resistant | | |
| | Alcohol Resistant | | |
| | Hydrocarbon Resistant | | |
| | Salt Water/Spray Resistant | | |
| | Solvent Resistant | | |
| Processing Method | Extrusion | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.47 | g/cm ³ | ASTM D792 |
| Water Absorption | | | ASTM D570 |
| 24 hr | 0.30 | % | |
| Saturation | 1.5 | % | |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness (E-Scale) | 91 | | ASTM D785 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 8270 | MPa | ASTM D638 |
| Tensile Strength (Ultimate) | 152 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 2.5 | % | ASTM D638 |
| Compressive Modulus | 6890 | MPa | ASTM D695 |
| Compressive Strength (10% Strain) | 255 | MPa | ASTM D695 |
| Coefficient of Friction (vs. Steel - Static) | 0.30 | | Internal Method |
| Wear Factor | 150 | 10 ⁻⁸ mm ³ /N·m | ASTM D3702 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact | 48 | J/m | ASTM D256A |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 282 | °C | ASTM D648 |
| Maximum Use Temperature - Long Term, Air | 260 | °C | |
| Limiting Pressure Velocity ¹ | 0.490 | MPa·m/s | Internal Method |
| Glass Transition Temperature | 275 | °C | ASTM D3418 |

| | | | |
|--|-------------------|----------|-------------|
| CLTE - Flow ² (-40 to 149°C) | 9.0E-6 | cm/cm/°C | ASTM E831 |
| Thermal Conductivity | 0.52 | W/m/K | ASTM F433 |
| Flammability | Nominal Value | | Test Method |
| Flame Rating (3.18 mm, Estimated Rating) | V-0 | UL 94 | |
| NOTE | | | |
| 1. | 4:1 safety factor | | |
| 2. | 68°F | | |

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