

Network Polymers PS CPS 80 1800

General Purpose Polystyrene

Network Polymers, Inc.

Message:

Network Polymers PS CPS 80 1800 is a General Purpose Polystyrene product. It can be processed by injection molding and is available in North America. Characteristics include:

- Crystalline
- High Flow

| General Information | | | |
|---|----------------------|-------------------|-------------|
| Features | Crystal High Flow | | |
| Appearance | Clear/Transparent | | |
| Forms | Pellets | | |
| Processing Method | Injection Molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.05 | g/cm ³ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (200°C/5.0 kg) | 18 | g/10 min | ASTM D1238 |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness (L-Scale) | 71 | | ASTM D785 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus ¹ | 2960 | MPa | ASTM D638 |
| Tensile Strength ² (Break) | 47.6 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 1.0 | % | ASTM D638 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (3.18 mm) | 13 | J/m | ASTM D256A |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 85.0 | °C | ASTM D648 |
| Vicat Softening Temperature | 93.3 | °C | ASTM D1525 |
| NOTE | | | |
| 1. | 51 mm/min | | |
| 2. | 51 mm/min | | |

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