

# POLYNIL® P230

Polyamide 66

Nilit Plastics

Message:

POLYNIL® P230 is an unreinforced Polyamide 66 (Nylon 66) for film casting and blowing.  
This 4.7 viscosity Polyamide 66 resin is FDA compliant and is NSF-61 certified for contact with potable water.

| General Information                     |                        |                   |                |
|-----------------------------------------|------------------------|-------------------|----------------|
| Uses                                    | Cast Film              |                   |                |
|                                         | Film                   |                   |                |
| Agency Ratings                          | FDA Unspecified Rating |                   |                |
|                                         | NSF 61                 |                   |                |
| Processing Method                       | Blown Film             |                   |                |
|                                         | Cast Film              |                   |                |
| Physical                                | Nominal Value          | Unit              | Test Method    |
| Density (23°C)                          | 1.14                   | g/cm <sup>3</sup> | ISO 1183       |
| Water Absorption                        |                        |                   | ISO 62         |
| 23°C, 24 hr                             | 1.5                    | %                 |                |
| Saturation, 23°C                        | 8.5                    | %                 |                |
| Mechanical                              | Nominal Value          | Unit              | Test Method    |
| Tensile Modulus (23°C)                  | 2800                   | MPa               | ISO 527-2      |
| Tensile Stress (Yield, 23°C)            | 82.0                   | MPa               | ISO 527-2      |
| Tensile Strain (Break, 23°C)            | 100                    | %                 | ISO 527-2      |
| Flexural Modulus (23°C)                 | 2800                   | MPa               | ISO 178        |
| Flexural Stress (23°C)                  | 120                    | MPa               | ISO 178        |
| Impact                                  | Nominal Value          | Unit              | Test Method    |
| Charpy Notched Impact Strength (23°C)   | 8.0                    | kJ/m <sup>2</sup> | ISO 179/1eA    |
| Charpy Unnotched Impact Strength (23°C) | No Break               |                   | ISO 179/1eU    |
| Notched Izod Impact Strength (23°C)     | 7.0                    | kJ/m <sup>2</sup> | ISO 180/A      |
| Thermal                                 | Nominal Value          | Unit              | Test Method    |
| Heat Deflection Temperature             |                        |                   |                |
| 0.45 MPa, Unannealed                    | 225                    | °C                | ISO 75-2/B     |
| 1.8 MPa, Unannealed                     | 72.0                   | °C                | ISO 75-2/A     |
| Continuous Use Temperature <sup>1</sup> | 85.0                   | °C                | IEC 60216      |
| Vicat Softening Temperature             | 240                    | °C                | ISO 306/B      |
| Ball Pressure Test                      |                        |                   | IEC 60695-10-2 |
| 125°C                                   | Pass                   |                   |                |

|                                                  |               |      |                |
|--------------------------------------------------|---------------|------|----------------|
| 165°C                                            | Pass          |      |                |
| Melting Temperature                              | 258           | °C   |                |
| Electrical                                       | Nominal Value | Unit | Test Method    |
| Comparative Tracking Index (3.20 mm, Solution A) | 600           | V    | IEC 60112      |
| Flammability                                     | Nominal Value | Unit | Test Method    |
| Flame Rating                                     |               |      | UL 94          |
| 0.800 mm                                         | HB            |      |                |
| 3.20 mm                                          | HB            |      |                |
| Glow Wire Flammability Index                     |               |      | IEC 60695-2-12 |
| 0.800 mm                                         | 750           | °C   |                |
| 3.20 mm                                          | 850           | °C   |                |
| Glow Wire Ignition Temperature                   |               |      | IEC 60695-2-13 |
| 0.800 mm                                         | 775           | °C   |                |
| 3.20 mm                                          | 750           | °C   |                |
| Oxygen Index                                     | 28            | %    | ISO 4589-2     |
| NOTE                                             |               |      |                |
| 1.                                               | 20000 hr      |      |                |

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