

UBE Nylon 5033 B

Polyamide 66/6 Copolymer

UBE Engineering Plastics, S.A.

Message:

UBE NYLON 5033 B is a basic, high viscosity Polyamide 6/6.6 grade without any additional modification suitable for a wide field of film and extrusion applications. The grade offers an excellent processability and outstanding properties.

| General Information | |
|---------------------|----------------------------------|
| Features | Workability, good |
| | Compliance of Food Exposure |
| | Viscosity, High |
| Uses | Films |
| Agency Ratings | European food contact, not rated |
| Forms | Particle |
| Processing Method | Film extrusion |
| | Extrusion |

| Physical | Nominal Value | Unit | Test Method |
|---|---------------|-------------------|-------------|
| Density | 1.14 | g/cm ³ | ISO 1183 |
| Mechanical | Nominal Value | Unit | Test Method |
| Coefficient of Friction | | | ASTM D1894 |
| With self-dynamics | 1.0 | | ASTM D1894 |
| With Self-Static | 1.0 | | ASTM D1894 |
| Films | Nominal Value | Unit | Test Method |
| Secant Modulus - MD (Cast Film) | 400 | MPa | ASTM D882 |
| Tensile Strength - MD | | | ASTM D882 |
| Yield, extruded film | 24.0 | MPa | ASTM D882 |
| Fracture, extruded film | 110 | MPa | ASTM D882 |
| Tensile Elongation - MD (Fracture, Extruded Film) | 600 | % | ASTM D882 |
| Thermal | Nominal Value | Unit | Test Method |
| Melting Temperature (DSC) | 196 | °C | ISO 3146 |
| Electrical | Nominal Value | Unit | Test Method |
| Surface Resistivity | 1.0E+15 | ohms | ASTM D257 |
| Optical | Nominal Value | Unit | Test Method |
| Gardner Gloss | 155 | | ASTM D523 |
| Haze | 0.50 | % | ASTM D1003 |

| Additional Information | | | |
|------------------------|--|--|--|
|------------------------|--|--|--|

The value listed as Melting Temperature, ISO 3146, was tested in accordance with ISO 11357. The value listed as Surface Resistivity, ASTM D257, was tested in accordance with UBE test methods. Coefficient of Friction, ASTM D1894, Dynamic: >1 Coefficient of Friction, ASTM D1894, Static: >1 Oxygen Permeability, ASTM D3985: 40 ml/m²/day Relative Viscosity, JIS K6810, 96% H₂SO₄, conc. 1.0 g/100 ml: 4.08 Extractable Content, JIS K6810: <1.0 wt% Moisture content, JIS K6810, in original packaging: <0.1 wt% Molecular Ratio, PA6/PA6.6: 85/15 Water Vapor Permeability, JIS Z0208: 125 g/m²/day Piercing Strength, JAS P1019, Cast Film: 10.0 N Piercing Elongation, JAS P1019, Cast Film: 15 mm Flex Crack Resistance, MIL B131B, 23°C, 1000 cycle, Cast Film: <5 hole/0.04 m² Gelbo Test, MIL B131B, 5°C, 100 cycle, Cast Film: <5 hole/0.04 m²

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Susheng Import & Export Trading Co., Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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