

# UBE Nylon PAE1200U

Polyamide 12 Elastomer

UBE America, Inc.

Message:

UBE Nylon PAE1200U is a polyamide 12 elastomer (nylon 12 elastomer) material. This product is available in North America. The main feature of UBE Nylon PAE1200U is transparency.  
Typical application areas include:  
engineering/industrial accessories  
Hose  
Consumer goods  
Handle  
medical/health care

| General Information                                      |                   |                   |             |
|--|-------------------|-------------------|-------------|
| Features   | Low density       |                   |             |
|  | Definition, high  |                   |             |
| Uses   | Handle            |                   |             |
|  | Wheels            |                   |             |
|  | Gear              |                   |             |
|  | Pipe fittings     |                   |             |
|  | Footwear          |                   |             |
|  | Glasses           |                   |             |
| Appearance   | Clear/transparent |                   |             |
| Forms  | Particle          |                   |             |
| Physical   | Nominal Value     | Unit              | Test Method |
| Specific Gravity   | 1.00              | g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (235°C/2.16 kg)                | 14                | g/10 min          | ASTM D1238  |
| Hardness   | Nominal Value     | Unit              | Test Method |
| Durometer Hardness (Shore D)                             | 58                |                   | ASTM D2240  |
| Mechanical   | Nominal Value     | Unit              | Test Method |
| Tensile Strength (Yield, 23°C)                           | 9.00              | MPa               | ASTM D638   |
| Tensile Elongation (Break, 23°C)                         | 300               | %                 | ASTM D638   |
| Flexural Modulus (23°C)                                  | 150               | MPa               | ASTM D790   |
| Flexural Strength (23°C)                                 | 7.00              | MPa               | ASTM D790   |
| Impact   | Nominal Value     | Unit              | Test Method |
| Notched Izod Impact (23°C)                               | No Break          |                   | ASTM D256   |
| Thermal  | Nominal Value     | Unit              | Test Method |
| Deflection Temperature Under Load (0.45 MPa, Unannealed) | 82.0              | °C                | ASTM D648   |
| Melting Temperature                                      | 154               | °C                |             |

#### Additional Information

The value listed as Melting Point was tested in accordance with ASTM D3418.Tensile Elongation at Break, ASTM D638, 23°C: >300%

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#### Recommended distributors for this material

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