

NYCOA Polyamide 578

Polyamide 6

Nycoa (Nylon Corporation of America)

Message:

NYCOA 578 is a very high viscosity resin particularly suitable for extrusion processing. Its high melt viscosity and strength provide ease of processing film from either flat or circular dies.

Typical applications include barrier films in packaging, tubes, pipes, high strength monofilament, and tapes.

NYCOA 578 complies with all the requirements of the FDA regulations 21 CFR 177.1500.

| General Information | |
|---------------------|----------------------------|
| Features | Very high viscosity |
| | Good strength |
| Uses | Films |
| | Strap |
| | monofilament |
| | Piping system |
| | Pipe fittings |
| Agency Ratings | FDA 21 CFR 177.1500 |
| Forms | Particle |
| Processing Method | Pipeline extrusion molding |
| | Extrusion |

| Physical | Nominal Value | Unit | Test Method |
|---|---------------|-------------------|-------------|
| Specific Gravity | 1.13 | g/cm ³ | ASTM D792 |
| Water Absorption (24 hr) | 1.7 | % | ASTM D570 |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness (R-Scale) | 120 | | ASTM D785 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength ¹ | 85.0 | MPa | ASTM D638 |
| Tensile Elongation ² (Break) | 100 | % | ASTM D638 |
| Flexural Modulus ³ | 2590 | MPa | ASTM D790 |
| Flexural Strength ⁴ | 92.0 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact | 64 | J/m | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load | | | ASTM D648 |
| 0.45 MPa, not annealed | 191 | °C | ASTM D648 |
| 1.8 MPa, not annealed | 66.7 | °C | ASTM D648 |
| Melting Temperature | 220 | °C | DSC |

Additional Information

Relative Viscosity, NYCOA Method: 3.85 to 4.4 SAVWater Extractable, NYCOA Method: 0.8 %Tensile Elongation at Break, ASTM D638, 2 in/min: 100+ %The value listed as Melting Point DSC, was tested in accordance with ASTM D789.

NOTE

| | |
|----|-----------|
| 1. | 51 mm/min |
| 2. | 51 mm/min |
| 3. | 51 mm/min |
| 4. | 51 mm/min |

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