

# Ultramid® A 3EG6 (Cond)

Polyamide 66

BASF Corporation

## Product Description

Ultramid A3EG6 is a 30% glass fiber reinforced injection molding PA66 grade for machinery components and housings of high stiffness and dimensional stability. It conforms to FDA requirements of 21 CFR 177.1500.

## General

|                        |  |
|------------------------|--|
| Material Status        | • Commercial: Active   |
| Availability           | • Europe • North America   |
| Filler / Reinforcement | • Glass Fiber Reinforcement, 30% Filler by Weight  |
| Additive               | • Heat Stabilizer  |
| Features               | • Good Colorability • Good Thermal Aging Resistance • Good Dimensional Stability • Good Weather Resistance • Good Flow • Heat Stabilized • High Rigidity • Low Viscosity • Oil Resistant |
| Uses                   | • Housings • Machine/Mechanical Parts  |
| Agency Ratings         | • FDA 21 CFR 177.1500  |
| RoHS Compliance        | • RoHS Compliant   |
| Appearance             | • Colors Available • Natural Color   |
| Forms                  | • Pellets  |
| Processing Method      | • Injection Molding  |
| Multi-Point Data       | • Creep Modulus vs. Time (ISO 11403-1) • Isothermal Stress vs. Strain (ISO 11403-1) • Isochronous Stress vs. Strain (ISO 11403-1) • Secant Modulus vs. Strain (ISO 11403-1)              |

| Mechanical               | Nominal Value | Unit | Test Method            |
|--------------------------|---------------|------|------------------------|
| Tensile modulus          | 7200          | MPa  | ISO 527-2 <sup>2</sup> |
| Tensile Stress           |               |      |                        |
| Break, -40°C             | 227           | MPa  | ISO 527-2              |
| Break                    | 130           | MPa  | ISO 527-2 <sup>2</sup> |
| Tensile Strain (Break)   | 5.0           | %    | ISO 527-2 <sup>2</sup> |
| Flexural Modulus (23°C)  | 6500          | MPa  | ISO 178                |
| Flexural Strength (23°C) | 210           | MPa  | ISO 178                |

| Impact                                  | Nominal Value | Unit              | Test Method              |
|---|---------------|-------------------|--------------------------|
| Charpy notched impact strength (23°C)   | 22.0          | kJ/m <sup>2</sup> | ISO 179/1eA <sup>2</sup> |
| Charpy Unnotched Impact Strength (23°C) | 100           | kJ/m <sup>2</sup> | ISO 179                  |

| Electrical                       | Nominal Value | Unit   | Test Method |
|----------------------------------|---------------|--------|-------------|
| Surface Resistivity <sup>3</sup> | 1.0E+10       | ohms   | ASTM D257   |
| Volume Resistivity (1.50 mm)     | 1.0E+10       | ohm·cm | ASTM D257   |

## Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.

<sup>3</sup> 1.5 mm

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

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