

# ELIX™ Ultra 4000 PG

Acrylonitrile Butadiene Styrene

ELIX Polymers, S. L.

Message:

ELIX Ultra 4000 PG  
Electroplating grade with high heat resistance.  
ISO Shortname: ISO 2580-1 -ABS 0, MG, 105-08-09-25

| General Information                         |                         |                        |              |
|---------------------------------------------|-------------------------|------------------------|--------------|
| UL YellowCard                               | E350602-101011319       |                        |              |
| Features                                    | High Heat Resistance    |                        |              |
|                                             | Platable                |                        |              |
| Forms                                       | Pellets                 |                        |              |
| Part Marking Code (ISO 2580)                | ABS 0, MG, 105-08-09-25 |                        |              |
| Physical                                    | Nominal Value           | Unit                   | Test Method  |
| Density                                     | 1.05                    | g/cm <sup>3</sup>      | ISO 1183     |
| Melt Volume-Flow Rate (MVR) (220°C/10.0 kg) | 6.00                    | cm <sup>3</sup> /10min | ISO 1133     |
| Molding Shrinkage <sup>1</sup>              |                         |                        | ISO 2577     |
| Across Flow                                 | 0.50 to 0.80            | %                      |              |
| Flow                                        | 0.50 to 0.80            | %                      |              |
| Hardness                                    | Nominal Value           | Unit                   | Test Method  |
| Ball Indentation Hardness                   | 100                     | MPa                    | ISO 2039-1   |
| Mechanical                                  | Nominal Value           | Unit                   | Test Method  |
| Tensile Modulus (23°C)                      | 2400                    | MPa                    | ISO 527-2/1  |
| Tensile Stress (Yield, 23°C)                | 46.0                    | MPa                    | ISO 527-2/50 |
| Tensile Strain                              |                         |                        | ISO 527-2/50 |
| Yield, 23°C                                 | 3.1                     | %                      |              |
| Break, 23°C                                 | > 15                    | %                      |              |
| Flexural Modulus <sup>2</sup> (23°C)        | 2350                    | MPa                    | ISO 178      |
| Flexural Stress <sup>3</sup> (23°C)         | 73.0                    | MPa                    | ISO 178      |
| Impact                                      | Nominal Value           | Unit                   | Test Method  |
| Charpy Notched Impact Strength              |                         |                        | ISO 179/1eA  |
| -30°C                                       | 10                      | kJ/m <sup>2</sup>      |              |
| 23°C                                        | 20                      | kJ/m <sup>2</sup>      |              |
| Notched Izod Impact Strength                |                         |                        | ISO 180/1A   |
| -30°C                                       | 10                      | kJ/m <sup>2</sup>      |              |
| 23°C                                        | 23                      | kJ/m <sup>2</sup>      |              |
| Thermal                                     | Nominal Value           | Unit                   | Test Method  |
| Heat Deflection Temperature                 |                         |                        |              |

| 0.45 MPa, Unannealed                    | 103           | °C       | ISO 75-2/B  |
|-----------------------------------------|---------------|----------|-------------|
| 1.8 MPa, Unannealed                     | 98.0          | °C       | ISO 75-2/A  |
| Vicat Softening Temperature             | 107           | °C       | ISO 306/B50 |
| CLTE                                    |               |          | ISO 11359-2 |
| Flow : 23 to 55°C                       | 9.0E-5        | cm/cm/°C |             |
| Transverse : 23 to 55°C                 | 9.0E-5        | cm/cm/°C |             |
| Electrical                              | Nominal Value | Unit     | Test Method |
| Surface Resistivity                     | 1.0E+16       | ohms     | IEC 60093   |
| Volume Resistivity                      | 1.0E+16       | ohms·cm  | IEC 60093   |
| Electric Strength (23°C, 1.00 mm)       | 38            | kV/mm    | IEC 60243-1 |
| Relative Permittivity                   |               |          | IEC 60250   |
| 23°C, 100 Hz                            | 3.00          |          |             |
| 23°C, 1 MHz                             | 2.90          |          |             |
| Dissipation Factor                      |               |          | IEC 60250   |
| 23°C, 100 Hz                            | 6.3E-3        |          |             |
| 23°C, 1 MHz                             | 8.7E-3        |          |             |
| Comparative Tracking Index (Solution A) | 600           | V        | IEC 60112   |
| Flammability                            | Nominal Value | Unit     | Test Method |
| Flame Rating (1.60 mm)                  | HB            |          | UL 94       |
| NOTE                                    |               |          |             |
| 1.                                      | 150x105x3     |          |             |
| 2.                                      | 2.0 mm/min    |          |             |
| 3.                                      | 2.0 mm/min    |          |             |

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