

# EPLAMID 6 IMP NC A501

Polyamide 6

EPSAN Plastik SAN. ve TiC. A.S.

Message:

Unreinforced and modified polyamide 6, with improved good-impact resistance, heat stabilized, lubricated for injection molding.  
Eplamid 6 IMP A501 is used in all sectors of industry , offering a good Impact resistance.  
This material is available in natural and in colours on request.

| General Information                      |                         |                   |                   |              |
|------------------------------------------|-------------------------|-------------------|-------------------|--------------|
| Additive                                 | heat stabilizer         |                   |                   |              |
|                                          | Lubricant               |                   |                   |              |
| Features                                 | Impact resistance, good |                   |                   |              |
|                                          | Thermal Stability       |                   |                   |              |
|                                          | Lubrication             |                   |                   |              |
| Appearance                               | Available colors        |                   |                   |              |
|                                          | Natural color           |                   |                   |              |
| Processing Method                        |                         | Injection molding |                   |              |
| Physical                                 | Dry                     | Conditioned       | Unit              | Test Method  |
| Density (23°C)                           | 1.09                    | --                | g/cm <sup>3</sup> | ISO 1183     |
| Molding Shrinkage                        |                         |                   |                   | ISO 294-4    |
| Vertical flow direction:<br>3.00mm       | 2.0                     | --                | %                 | ISO 294-4    |
| Flow direction: 3.00mm                   | 1.6                     | --                | %                 | ISO 294-4    |
| Moisture Content                         | 0.20                    | --                | %                 | ISO 15512    |
| Hardness                                 | Dry                     | Conditioned       | Unit              | Test Method  |
| Durometer Hardness<br>(Shore D, 23°C)    | 78                      | --                |                   | ISO 868      |
| Mechanical                               | Dry                     | Conditioned       | Unit              | Test Method  |
| Tensile Modulus (23°C)                   | 2500                    | 2300              | MPa               | ISO 527-2/50 |
| Tensile Stress (Break, 23°C)             | 40.0                    | 35.0              | MPa               | ISO 527-2/50 |
| Tensile Strain (Break, 23°C)             | > 50                    | > 40              | %                 | ISO 527-2/50 |
| Flexural Modulus <sup>1</sup> (23°C)     | 2100                    | 1800              | MPa               | ISO 178      |
| Flexural Stress <sup>2</sup> (23°C)      | 85.0                    | 75.0              | MPa               | ISO 178      |
| Impact                                   | Dry                     | Conditioned       | Unit              | Test Method  |
| Charpy Notched Impact<br>Strength (23°C) | 15                      | 17                | kJ/m <sup>2</sup> | ISO 179/1eA  |
| Notched Izod Impact<br>(23°C)            | 13                      | 15                | kJ/m <sup>2</sup> | ISO 180/1A   |
| Thermal                                  | Dry                     | Conditioned       | Unit              | Test Method  |

|                                                                          |            |             |    |                             |
|--------------------------------------------------------------------------|------------|-------------|----|-----------------------------|
| Melting Temperature (DSC)                                                | 215        | --          | °C | ISO 3146                    |
| Flammability                                                             | Dry        | Conditioned |    | Test Method                 |
| Flame Rating (1.60 mm)                                                   | HB         | --          |    | UL 94, IEC 60695-11-10, -20 |
| Additional Information                                                   |            |             |    |                             |
| 干燥<br>TEST CONDITIONS: Laboratory conditions are 23 ±2°C and 45-55 % RH. |            |             |    |                             |
| Injection                                                                | Dry        | Unit        |    |                             |
| Drying Temperature                                                       | 80.0       |             | °C |                             |
| Drying Time                                                              | 2.0 - 4.0  |             | hr |                             |
| Processing (Melt) Temp                                                   | 260        |             | °C |                             |
| NOTE                                                                     |            |             |    |                             |
| 1.                                                                       | 2.0 mm/min |             |    |                             |
| 2.                                                                       | 2.0 mm/min |             |    |                             |

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