

# EPLAMID 6 IMP V0 NC B001

Polyamide 6

EPSAN Plastik SAN. ve TiC. A.S.

Message:

Flame retardant additived polyamide 6, with improved good-impact resistance, heat stabilized, lubricated for injection molding. Eplamid 6 IMP V0 B001 offers an excellent Notched High Impact resistance with ensures outstanding performance at low temperatures with rating UL94 V0 and glow-wire at 960°C, which is used in many sectors of industry. This material is available in natural and in colours on request.

| General Information                   |      |                                   |                   |              |
|---------------------------------------|------|-----------------------------------|-------------------|--------------|
| Additive                              |      | heat stabilizer                   |                   |              |
|                                       |      | Lubricant                         |                   |              |
|                                       |      | Flame retardancy                  |                   |              |
| Features                              |      | Impact resistance, good           |                   |              |
|                                       |      | Low temperature impact resistance |                   |              |
|                                       |      | Thermal Stability                 |                   |              |
|                                       |      | Lubrication                       |                   |              |
|                                       |      | Flame retardancy                  |                   |              |
| Appearance                            |      | Available colors                  |                   |              |
|                                       |      | Natural color                     |                   |              |
| Processing Method                     |      | Injection molding                 |                   |              |
| Physical                              | Dry  | Conditioned                       | Unit              | Test Method  |
| Density (23°C)                        | 1.33 | --                                | g/cm <sup>3</sup> | ISO 1183     |
| Molding Shrinkage                     |      |                                   |                   | ISO 294-4    |
| Vertical flow direction:<br>3.00mm    | 1.8  | --                                | %                 | ISO 294-4    |
| Flow direction: 3.00mm                | 1.4  | --                                | %                 | 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)                | 4000 | 3850                              | MPa               | ISO 527-2/50 |
| Tensile Stress (Break, 23°C)          | 40.0 | 37.0                              | MPa               | ISO 527-2/50 |
| Tensile Strain (Break, 23°C)          | 3.0  | 8.0                               | %                 | ISO 527-2/50 |
| Flexural Modulus <sup>1</sup> (23°C)  | 3800 | 3650                              | 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 Strength (23°C)                              | 11         | 14          | kJ/m <sup>2</sup> | ISO 179/1eA                 |
| Notched Izod Impact (23°C)                                         | 10         | 12          | kJ/m <sup>2</sup> | ISO 180/1A                  |
| Thermal                                                            | Dry        | Conditioned | Unit              | Test Method                 |
| Melting Temperature (DSC)                                          | 220        | --          | °C                | ISO 3146                    |
| Electrical                                                         | Dry        | Conditioned | Unit              | Test Method                 |
| Comparative Tracking Index (Solution A)                            | 250        | --          | V                 | IEC 60112                   |
| Flammability                                                       | Dry        | Conditioned | Unit              | Test Method                 |
| Flame Rating (1.60 mm)                                             | V-0        | --          |                   | UL 94, IEC 60695-11-10, -20 |
| Glow Wire Flammability Index (1.60 mm)                             | 960        | --          | °C                | IEC 60695-2-12              |
| Glow Wire Ignition Temperature (0.800 mm)                          | 750        | --          | °C                | IEC 60695-2-13              |
| Additional Information                                             |            |             |                   |                             |
| 干燥                                                                 |            |             |                   |                             |
| 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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