

**TITAN A4X16**

PA\*

MAIP SRL

| Processing/Physical Characteristics | Value | Unit    | Test Standard   |
|-------------------------------------|-------|---------|-----------------|
| <b>ISO Data</b>                     |       |         |                 |
| Melt flow index, MFI                | 110   | g/10min | ISO 1133        |
| Temperature                         | 275   | °C      | -               |
| Load                                | 5     | kg      | -               |
| Molding shrinkage, parallel         | 0.8   | %       | ISO 294-4, 2577 |
| Molding shrinkage, normal           | 1.2   | %       | ISO 294-4, 2577 |

| Mechanical properties               | Value | Unit              | Test Standard |
|-------------------------------------|-------|-------------------|---------------|
| <b>ISO Data</b>                     |       |                   |               |
| Tensile Modulus                     | 4200  | MPa               | ISO 527       |
| Yield stress                        | 85    | MPa               | ISO 527       |
| Stress at break                     | 80    | MPa               | ISO 527       |
| Strain at break                     | 3     | %                 | ISO 527       |
| Flexural modulus, 23°C              | 3700  | MPa               | ISO 178       |
| Flexural strength                   | 125   | MPa               | ISO 178       |
| Izod notched impact strength, +23°C | 3.5   | kJ/m <sup>2</sup> | ISO 180/1A    |
| Rockwell hardness                   | R 129 | -                 | ISO 2039-2    |

| Thermal properties                          | Value | Unit  | Test Standard   |
|---|-------|-------|-----------------|
| <b>ISO Data</b>                             |       |       |                 |
| Melting temperature, 10°C/min               | 242   | °C    | ISO 11357-1/-3  |
| Glass transition temperature, 10°C/min      | 80    | °C    | ISO 11357-1/-2  |
| Temp. of deflection under load, 0.45 MPa    | 225   | °C    | ISO 75-1/-2     |
| Coeff. of linear therm. expansion, parallel | 55    | E-6/K | ISO 11359-1/-2  |
| Coeff. of linear therm. expansion, normal   | 60    | E-6/K | ISO 11359-1/-2  |
| Burning behav. at thickness h               | HB    | class | IEC 60695-11-10 |
| Glow Wire Flammability Index (GWFI)         | 750   | °C    | IEC 60695-2-12  |
| GWFI - thickness tested (1)                 | 2     | mm    | -               |

| Electrical properties | Value | Unit  | Test Standard |
|-----------------------|-------|-------|---------------|
| <b>ISO Data</b>       |       |       |               |
| Volume resistivity    | 1E13  | Ohm*m | IEC 62631-3-1 |

| Other properties | Value | Unit              | Test Standard |
|------------------|-------|-------------------|---------------|
| Density          | 1190  | kg/m <sup>3</sup> | ISO 1183      |

| Processing Recommendation Injection Molding | Value     | Unit | Test Standard |
|---|-----------|------|---------------|
| Pre-drying - Temperature                    | 100       | °C   | -             |
| Pre-drying - Time                           | 4 - 12    | h    | -             |
| Processing humidity                         | ≤0.12     | %    | -             |
| Melt temperature                            | 260 - 280 | °C   | -             |
| Mold temperature                            | 20 - 30   | °C   | -             |

**Characteristics****Processing**

Injection Molding

**Regional Availability**

Europe