

**LARPEEK 10 K/30**

PEEK-CF

LATI Industria Termoplastici S.p.A.

| <b>Processing/Physical Characteristics</b>         | <b>Value</b>     | <b>Unit</b>       | <b>Test Standard</b> |
|--|------------------|-------------------|----------------------|
| <b>ISO Data</b>                                    |                  |                   |                      |
| Molding shrinkage, parallel                        | <b>0.1</b>       | %                 | ISO 294-4, 2577      |
| Molding shrinkage, normal                          | <b>0.4</b>       | %                 | ISO 294-4, 2577      |
| <b>Mechanical properties</b>                       |                  |                   |                      |
| <b>ISO Data</b>                                    |                  |                   |                      |
| Tensile Modulus                                    | <b>24000</b>     | MPa               | ISO 527              |
| Stress at break                                    | <b>240</b>       | MPa               | ISO 527              |
| Strain at break                                    | <b>1.3</b>       | %                 | ISO 527              |
| Charpy impact strength, +23°C                      | <b>40</b>        | kJ/m <sup>2</sup> | ISO 179/1eU          |
| Charpy notched impact strength, +23°C              | <b>5</b>         | kJ/m <sup>2</sup> | ISO 179/1eA          |
| <b>Thermal properties</b>                          |                  |                   |                      |
| <b>ISO Data</b>                                    |                  |                   |                      |
| Temp. of deflection under load, 1.80 MPa           | <b>300</b>       | °C                | ISO 75-1/-2          |
| Temp. of deflection under load, 0.45 MPa           | <b>300</b>       | °C                | ISO 75-1/-2          |
| Vicat softening temperature, B                     | <b>300</b>       | °C                | ISO 306              |
| Coeff. of linear therm. expansion, parallel        | <b>5</b>         | E-6/K             | ISO 11359-1/-2       |
| <b>Electrical properties</b>                       |                  |                   |                      |
| <b>ASTM Data</b>                                   |                  |                   |                      |
| Surface Resistivity                                | <b>100</b>       | Ohm               | ASTM D 257           |
| Volume Resistivity                                 | <b>10000</b>     | Ohm*cm            | ASTM D 257           |
| <b>Other properties</b>                            |                  |                   |                      |
| Density  | <b>1390</b>      | kg/m <sup>3</sup> | ISO 1183             |
| <b>Processing Recommendation Injection Molding</b> |                  |                   |                      |
| Pre-drying - Temperature                           | <b>120 - 150</b> | °C                | -                    |
| Pre-drying - Time                                  | <b>3</b>         | h                 | -                    |
| Melt temperature                                   | <b>370 - 400</b> | °C                | -                    |
| Mold temperature                                   | <b>170 - 200</b> | °C                | -                    |

**Characteristics****Processing**

Injection Molding

**Features**

Low Smoke

**Chemical Resistance**

General Chemical Resistance

**Regional Availability**

Europe