

# Padermid 6 GF30 N

Polyamide 6  
TKC Kunststoffe e.K.

## Message:

Padermid 6 GF30 N is a Polyamide 6 (Nylon 6) material filled with 30% glass fiber. It is available in Europe for injection molding.  
Important attributes of Padermid 6 GF30 N are:  
Flame Rated  
High Strength  
Impact Resistant  
Typical applications include:  
Automotive  
Electrical/Electronic Applications  
Engineering/Industrial Parts  
Housings

| General Information        |                                    |                   |             |
|----------------------------|------------------------------------|-------------------|-------------|
| Filler / Reinforcement     | Glass Fiber,30% Filler by Weight   |                   |             |
| Features                   | High Impact Resistance             |                   |             |
|                            | High Strength                      |                   |             |
| Uses                       | Automotive Applications            |                   |             |
|                            | Electrical/Electronic Applications |                   |             |
|                            | Gears                              |                   |             |
|                            | Housings                           |                   |             |
| Appearance                 | Black                              |                   |             |
|                            | Colors Available                   |                   |             |
|                            | Natural Color                      |                   |             |
| Forms                      | Granules                           |                   |             |
| Processing Method          | Injection Molding                  |                   |             |
| Physical                   | Nominal Value                      | Unit              | Test Method |
| Density                    | 1.33                               | g/cm <sup>3</sup> | ISO 1183    |
| Molding Shrinkage          |                                    |                   | STN 64 0808 |
| Across Flow                | 0.90                               | %                 |             |
| Flow                       | 0.45                               | %                 |             |
| Moisture Absorption (23°C) | 1.8                                | %                 | DIN 53495   |
| Deflection Temperature     | 200                                | °C                | ISO 306     |
| Residual Moisture Content  | < 0.15                             | %                 | DIN 53495   |
| Mechanical                 | Nominal Value                      | Unit              | Test Method |
| Tensile Modulus            | 8900                               | MPa               | ISO 527-2   |
| Tensile Stress             | 170                                | MPa               | ISO 527-2   |
| Tensile Strain (Break)     | 3.0                                | %                 | ISO 527-2   |

|                                         |               |                   |                |
|-----------------------------------------|---------------|-------------------|----------------|
| Flexural Modulus                        | 7600          | MPa               | ISO 178        |
| Flexural Stress                         | 200           | MPa               | ISO 178        |
| Impact                                  | Nominal Value | Unit              | Test Method    |
| Charpy Notched Impact Strength          |               |                   | ISO 179        |
| -20°C                                   | 11            | kJ/m <sup>2</sup> |                |
| 23°C                                    | 12            | kJ/m <sup>2</sup> |                |
| Charpy Unnotched Impact Strength        |               |                   | ISO 179        |
| -20°C                                   | 55            | kJ/m <sup>2</sup> |                |
| 23°C                                    | 65            | kJ/m <sup>2</sup> |                |
| Thermal                                 | Nominal Value | Unit              | Test Method    |
| Vicat Softening Temperature             | 210           | °C                | ISO 306/B      |
| Melting Temperature (DSC)               | 220           | °C                | ISO 3146       |
| Electrical                              | Nominal Value | Unit              | Test Method    |
| Surface Resistivity                     | 8.0E+13       | ohms              | IEC 60093      |
| Volume Resistivity                      | 5.0E+13       | ohms·cm           | IEC 60093      |
| Electric Strength                       | 20            | kV/mm             | IEC 60243-1    |
| Comparative Tracking Index (Solution A) | 575           | V                 | STN 34 6468    |
| Flammability                            | Nominal Value | Unit              | Test Method    |
| Flame Rating                            | HB            |                   | UL 94          |
| Glow Wire Ignition Temperature          | 650           | °C                | IEC 60695-2-13 |
| Injection                               | Nominal Value | Unit              | Test Method    |
| Drying Temperature                      | 80.0          | °C                |                |
| Drying Time                             | 4.0           | hr                |                |
| Processing (Melt) Temp                  | 250 to 280    | °C                |                |
| Mold Temperature                        | 70.0 to 90.0  | °C                |                |
| Injection Pressure                      | 70.0 to 120   | MPa               |                |

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