

# FORMULA P ELAN 5220 M2

Polypropylene  
Putsch Kunststoffe GmbH

Message:  
Polypropylene, with 20% mineral reinforcement, with an excellent relationship between the materials stiffness and its impact resistance. In special colours and UV-stable colours.

| General Information                       |                                      |                   |                 |
|-------------------------------------------|--------------------------------------|-------------------|-----------------|
| Filler / Reinforcement                    | Mineral filler, 20% filler by weight |                   |                 |
| Features                                  | Rigid, good                          |                   |                 |
|                                           | Impact resistance, good              |                   |                 |
| Appearance                                | Available colors                     |                   |                 |
| Physical                                  | Nominal Value                        | Unit              | Test Method     |
| Density                                   | 1.04                                 | g/cm <sup>3</sup> | ISO 1183        |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 12                                   | g/10 min          | ISO 1133        |
| Molding Shrinkage                         | 0.80 - 1.1                           | %                 | Internal method |
| Mechanical                                | Nominal Value                        | Unit              | Test Method     |
| Tensile Stress                            |                                      |                   | ISO 527-2       |
| Yield                                     | 20.0                                 | MPa               | ISO 527-2       |
| Fracture                                  | 14.0                                 | MPa               | ISO 527-2       |
| Tensile Strain (Break)                    | 50                                   | %                 | ISO 527-2       |
| Flexural Modulus                          | 2000                                 | MPa               | ISO 178         |
| Flexural Stress (3.5% Strain)             | 45.0                                 | MPa               | ISO 178         |
| Impact                                    | Nominal Value                        | Unit              | Test Method     |
| Notched Izod Impact                       |                                      |                   | ISO 180         |
| -20°C                                     | 4.0                                  | kJ/m <sup>2</sup> | ISO 180         |
| 23°C                                      | 20                                   | kJ/m <sup>2</sup> | ISO 180         |
| Thermal                                   | Nominal Value                        | Unit              | Test Method     |
| Vicat Softening Temperature               | 60.0                                 | °C                | ISO 306/B       |
| Additional Information                    |                                      |                   |                 |
| Tensile Strength, ISO 527: 20 MPa         |                                      |                   |                 |
| Injection                                 | Nominal Value                        | Unit              |                 |
| Processing (Melt) Temp                    | 245 - 255                            | °C                |                 |
| Mold Temperature                          | 30.0 - 60.0                          | °C                |                 |

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