# ISPLEN® PB 181 N2M

Polypropylene Impact Copolymer

REPSOL

## Message:

ISPLEN® PB 181 N2M is a high fluidity heterophasic copolymer characterised by its good balance of stiffness and impact properties. Due to the nucleating agents it contains, PB181N2M has high stiffness. In addition, the grade shows good impact properties and good processability. ISPLEN® PB181N2M is formulated with a specific additivation to facilitate the dispersion of static charges accumulated on the article surface and avoid anaesthetic dust patterns during storage or exhibition.
Among other technical advantages ISPLEN® PB 181 N2M offer:
Highly suitable for manufacturing of articles with good impact properties and a high melt flow rate.
Easy flow enables to fill moulds with complex geometry or big articles.
Low warpage and high dimensional stability.
TYPICAL APPLICATIONS
ISPLEN® PB 181 N2M characteristics perform a grade particularly designed for applications which main requirement is a good balance between mechanical properties and where good impact properties are needed in a grade of high melt flow rate. Some examples of these applications could be: pails and lids, technical components and containers as heavy duty crates, suitcase shells, professional organizers and automotive components.
Recommended melt temperature range from 190 to 250°C. Processing conditions should be optimised for each production line.

| General Information | |
|---|---|
| Additive | Antistatic |
| | Nucleating Agent |
| Features | Antistatic |
| | Food Contact Acceptable |
| | Good Dimensional Stability |
| | Good Impact Resistance |
| | Good Moldability |
| | Good Processability |
| | High Flow |
| | High Stiffness |
| | Low Warpage |
| | Nucleated |
| Uses | Automotive Applications |
| | Containers |
| | Crates |
| | Engineering Parts |
| | Lids |
| | Luggage |
| | Pails |
| Agency Ratings | EU Food Contact, Unspecified Rating |
| Processing Method | Injection Molding |

| Physical | Nominal Value | Unit | Test Method |
|---|---|---|---|

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|---|---|---|---|
| Density | 0.905 | g/cm³ | ISO 1183 |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 25 | g/10 min | ISO 1133 |
| Hardness | Nominal Value | Unit | Test Method |
| Shore Hardness (Shore D) | 60 | | ISO 868 |
| Mechanical | Nominal Value | Unit | Test Method |
| Flexural Modulus | 1250 | MPa | ISO 178 |
| Impact | Nominal Value | Unit | Test Method |
| Charpy Notched Impact Strength (23°C) | 8.0 | kJ/m² | ISO 179 |
| Thermal | Nominal Value | Unit | Test Method |
| Heat Deflection Temperature (0.45 MPa, Unannealed) | 89.0 | °C | ISO 75-2/B |
| Injection | Nominal Value | Unit | |
| Processing (Melt) Temp | 190 to 250 | °C | |



## Recommended distributors for this material

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

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