



Chemicals

ISPLEN[®] PP 031 G1E

ISPLEN[®] PP 031 G1E is a medium-low melt flow rate polypropylene homopolymer. It offers an optimum balance between mechanical and processing properties for production of monofilaments and tapes with high tensile strength at break. It is formulated with an additive package suitable for protecting the polymer during extrusion process and final use.

TYPICAL APPLICATIONS

- High tenacity monofilaments and tapes for ropes and twines
- Low fibrillation tapes for textil uses
- Strap
- Sheet extrusion

Recommended melt temperature range from 190 to 250°C. Processing conditions should be optimised for each production line.

| PROPERTIES | VALUE | UNITY | METHOD |
|--------------------------------|-------|-------------------|-----------|
| General | | | |
| Melt Flow Rate (230°C/2.16 kg) | 2.2 | g/10 min | ISO 1133 |
| Density | 905 | kg/m ³ | ISO 1183 |
| Mechanical | | | |
| Flexural Modulus | 1300 | MPa | ISO 178 |
| Tensile Strength at Yield | 35 | MPa | ISO 527-2 |
| Thermal | | | |
| Vicat (9.8 N) | 152 | °C | ISO 306 |
| HDT (0.45 MPa) | 90 | °C | ISO 75 |

ISPLEN[®] PP 031 G1E complies with the European Directives regarding materials intended for contact with foodstuffs. For further information, please contact our Technical Service and Development Laboratory or our Customer Care Service.

STORAGE

ISPLEN[®] PP 031 G1E should be stored in a dry atmosphere, on a paved, drained and not flooded area, at temperatures under 60°C and protected from UV radiation. Storage under inappropriate conditions could initiate degradation processes which may have a negative influence on the processability and the properties of the transformed product.

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