

# ISPLEN® PP 031 G1E

Polypropylene Homopolymer  
REPSOL

Message:

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.

General Information			
Additive	Processing Stabilizer		
Features	Food Contact Acceptable		
	High Tensile Strength		
	Medium Flow		
Uses	Monofilaments		
	Rope		
	Sheet		
	Strapping		
	Tape		
	Twine		
Agency Ratings	EU Food Contact, Unspecified Rating		
Processing Method	Extrusion		
	Filament Extrusion		
	Sheet Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.905	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	2.2	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	35.0	MPa	ISO 527-2
Flexural Modulus	1300	MPa	ISO 178
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	90.0	°C	ISO 75-2/B
Vicat Softening Temperature	152	°C	ISO 306/A

Extrusion	Nominal Value	Unit
Melt Temperature	190 to 250	°C

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