

ISPLEN® PP 040 N1E

Polypropylene Homopolymer

REPSOL

Message:

Isplen® PP 040 N1E is a medium melt flow rate polypropylene homopolymer specially formulated and adapted for extrusion processes and particularly in thermoforming applications.

It is nucleated so that it exhibits high stiffness, good transparency and excellent high temperature properties. It is recommended in sterilisation and hot filling.

TYPICAL APPLICATIONS

In extrusion processes such as:

Mainly in sheet extrusion and thermoforming.

Others are monofilament and weaving tapes.

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

General Information

Features	Food Contact Acceptable Good Sterilizability High Clarity High Heat Resistance High Stiffness Medium Flow
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Uses	Monofilaments Sheet Tape
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Agency Ratings	EU Food Contact, Unspecified Rating
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Processing Method	Extrusion Filament Extrusion Sheet Extrusion Thermoforming
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Physical	Nominal Value	Unit	Test Method
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Density	0.905	g/cm ³	ISO 1183
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Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	3.0	g/10 min	ISO 1133
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Mechanical	Nominal Value	Unit	Test Method
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Tensile Stress (Yield)	35.0	MPa	ISO 527-2
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Flexural Modulus	1600	MPa	ISO 178
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Thermal	Nominal Value	Unit	Test Method
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Heat Deflection Temperature (0.45 MPa, Unannealed)	90.0	°C	ISO 75-2/B
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Vicat Softening Temperature	153	°C	ISO 306/A
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Extrusion	Nominal Value	Unit
Melt Temperature	190 to 250	°C

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