

# 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		
Uses	Monofilaments		
	Sheet		
	Tape		
Agency Ratings	EU Food Contact, Unspecified Rating		
Processing Method	Extrusion		
	Filament Extrusion		
	Sheet Extrusion		
	Thermoforming		
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)	3.0	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	35.0	MPa	ISO 527-2
Flexural Modulus	1600	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	153	°C	ISO 306/A

Extrusion	Nominal Value	Unit
Melt Temperature	190 to 250	°C

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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

