

# ISPLEN® PP 040 C1E

Polypropylene Homopolymer  
REPSOL

Message:

Isplen® PP 040 C1E is a medium melt flow rate polypropylene homopolymer specially formulated and adapted for extrusion processes and particularly in thermoforming due to its high transparency and high stiffness.  
It is nucleated and the properties remain even at high regrind fractions. This makes the grade recommendable in barrier sheet packing application.

TYPICAL APPLICATIONS

In extrusion processes such as:  
Mainly in sheet extrusion and thermoforming.  
Coextrusion in rigid packaging.  
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			
Additive	Nucleating Agent		
Features	Food Contact Acceptable		
	High Clarity		
	High Stiffness		
	Medium Flow		
	Nucleated		
Uses	Monofilaments		
	Packaging		
	Sheet		
	Tape		
Agency Ratings	EU Food Contact, Unspecified Rating		
Processing Method	Coextrusion		
	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
Flexural Modulus	1800	MPa	ISO 178
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	1000	µm	
Impact	Nominal Value	Unit	Test Method

Charpy Notched Impact Strength (23°C)	3.5	kJ/m <sup>2</sup>	ISO 179
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
Optical	Nominal Value	Unit	Test Method
Haze (1000 μm)	21	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	190 to 250	°C	

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#### Recommended distributors for this material

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