

INEOS PP 401-NA01

Polypropylene Impact Copolymer

INEOS Olefins & Polymers Europe

Message:

401-NA01 is a nucleated low melt flow rate, very high impact copolymer for demanding industrial applications. This nucleated grade allows a faster cooling and excellent dimensional stability. It offers a superior balance of stiffness and impact strength and low gel content compared to competitive impact copolymers of similar melt flow rate.

Applications

Corrugated sheet (twin walled sheet)

Corrugated pipe and fittings

Sheets for thermforms

Injection moulding

Benefits and Features

Improved impact / stiffness balance

Very low gel content

Superior surface quality

Superior processability

General Information			
Additive	Nucleating Agent		
Features	Good Dimensional Stability		
	Good Processability		
	Good Stiffness		
	Good Surface Finish		
	High Impact Resistance		
	Impact Copolymer		
	Low Flow		
	Low Gel		
	Nucleated		
Uses	Corrugated Pipe		
	Corrugated Sheet		
	Fittings		
	Sheet		
RoHS Compliance	Contact Manufacturer		
Forms	Pellets		
Processing Method	Injection Molding		
	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	1.2	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method

Tensile Stress (Yield)	27.0	MPa	ISO 527-2
Flexural Modulus (23°C)	1300	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	8.0	kJ/m ²	
23°C	50	kJ/m ²	
Notched Izod Impact Strength			ISO 180/1A
-20°C	7.5	kJ/m ²	
23°C	45	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	91.0	°C	ISO 75-2/B
Vicat Softening Temperature	154	°C	ISO 306/A50
Peak Melting Temperature	165	°C	ASTM D3418

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