

INEOS PP L12N-00

Polypropylene Impact Copolymer

INEOS Olefins & Polymers USA

Message:

L12N-00 is a medium melt flow rate, nucleated impact copolymer polypropylene for injection molding and compounding applications. It is especially formulated for high impact resistance, high flexural modulus, and excellent gloss. Applications include automotive, consumer products, housewares, and compounding. This material meets the requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520.

General Information			
Additive	Nucleating Agent		
Features	Food Contact Acceptable		
	High Gloss		
	High Impact Resistance		
	Impact Copolymer		
	Medium Flow		
	Nucleated		
Uses	Automotive Applications		
	Compounding		
	Consumer Applications		
	Household Goods		
Agency Ratings	EC 1907/2006 (REACH)		
	FDA 21 CFR 177.1520		
RoHS Compliance	Contact Manufacturer		
Forms	Pellets		
Processing Method	Compounding		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.903	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	11	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	88		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638
Yield	25.8	MPa	
Break	18.1	MPa	
Tensile Elongation ²			ASTM D638

Yield	6.0	%	
Break	120	%	
Flexural Modulus - 1% Secant	1260	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-20°C	64	J/m	
23°C	300	J/m	
Notched Izod Impact (Area)			ASTM D256
-20°C	6.00	kJ/m ²	
23°C	30.1	kJ/m ²	
Instrumented Impact, Ductility			ASTM D3763
-20°C	Ductile		
23°C	Ductile		
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	102	°C	
1.8 MPa, Unannealed	53.3	°C	
Vicat Softening Temperature	148	°C	ASTM D1525
Optical	Nominal Value		Test Method
Gloss (60°)	74		ASTM D2457
NOTE			
1.	51 mm/min		
2.	51 mm/min		

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