



# INEOS PP L12N-00

INEOS Olefins & Polymers USA - Polypropylene Impact Copolymer

Tuesday, November 5, 2019

## General Information

### Product Description

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

Material Status	<ul style="list-style-type: none"> <li>Commercial: Active</li> </ul>		
Availability	<ul style="list-style-type: none"> <li>North America</li> </ul>		
Additive	<ul style="list-style-type: none"> <li>Nucleating Agent</li> </ul>		
Features	<ul style="list-style-type: none"> <li>Food Contact Acceptable</li> <li>High Gloss</li> </ul>	<ul style="list-style-type: none"> <li>High Impact Resistance</li> <li>Impact Copolymer</li> </ul>	<ul style="list-style-type: none"> <li>Medium Flow</li> <li>Nucleated</li> </ul>
Uses	<ul style="list-style-type: none"> <li>Automotive Applications</li> <li>Compounding</li> </ul>	<ul style="list-style-type: none"> <li>Consumer Applications</li> <li>Household Goods</li> </ul>	
Agency Ratings	<ul style="list-style-type: none"> <li>EC 1907/2006 (REACH)</li> <li>FDA 21 CFR 177.1520</li> </ul>		
RoHS Compliance	<ul style="list-style-type: none"> <li>Contact Manufacturer</li> </ul>		
Forms	<ul style="list-style-type: none"> <li>Pellets</li> </ul>		
Processing Method	<ul style="list-style-type: none"> <li>Compounding</li> </ul>	<ul style="list-style-type: none"> <li>Injection Molding</li> </ul>	

## ASTM & ISO Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.905		ASTM D792
Melt Mass-Flow Rate (230°C/2.16 kg)	12	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>2</sup> (Yield)	3740	psi	ASTM D638
Tensile Strength <sup>2</sup> (Break)	2620	psi	ASTM D638
Tensile Elongation <sup>2</sup> (Yield)	6.0	%	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	120	%	ASTM D638
Flexural Modulus - 1% Secant	183000	psi	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-4°F	1.2	ft·lb/in	
73°F	3.6	ft·lb/in	
Notched Izod Impact (Area)			ASTM D256
-4°F	2.86	ft·lb/in <sup>2</sup>	
73°F	8.99	ft·lb/in <sup>2</sup>	
Instrumented Impact, Ductility			ASTM D3763
-4°F	Ductile		
73°F	Ductile		
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	88		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	215	°F	ASTM D648
Deflection Temperature Under Load			ASTM D648
264 psi, Unannealed	127	°F	

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## INEOS Olefins & Polymers USA - Polypropylene Impact Copolymer

Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	299	°F	ASTM D1525
Optical	Nominal Value	Unit	Test Method
Gloss (60°)	74		ASTM D2457

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 2.0 in/min