INEOS PP L12N-00

INEOS Olefins & Polymers USA - Polypropylene Impact Copolymer

Friday, September 20, 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	• Commercial: Active		
Availability	• North America		
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	

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.903	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	12	g/10 min	ASTM D1238
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [2] (Yield)	25.8	MPa	ASTM D638
Tensile Strength [2] (Break)	18.1	MPa	ASTM D638
Tensile Elongation [2] (Yield)	6.0	%	ASTM D638
Tensile Elongation [2] (Break)	120	%	ASTM D638
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	190	J/m	
Notched Izod Impact (Area)			ASTM D256
-20°C	6.00	kJ/m²	
23°C	18.9	kJ/m²	
Instrumented Impact, Ductility			ASTM D3763
-20°C	Ductile		
23°C	Ductile		
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	88		ASTM D785
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	102	°C	

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Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed	53.0	°C	
Vicat Softening Temperature	148	°C	ASTM D1525

Optical	Nominal Value	Unit	Test Method
Gloss (60°)	74		ASTM D2457

Notes

[1] Typical properties: these are not to be construed as specifications.

[2] 51 mm/min