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	• 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	0.905		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 [2] (Yield)	3740	psi	ASTM D638
Tensile Strength [2] (Break)	2620	psi	ASTM D638
Tensile Elongation [2] (Yield)	6.0	%	ASTM D638
Tensile Elongation [2] (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/in²	
73°F	8.99	ft·lb/in²	
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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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

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

[2] 2.0 in/min