INEOS PP L34N-00

INEOS Olefins & Polymers USA - Polypropylene Impact Copolymer

Tuesday, November 5, 2019

General Information

Product Description

Grade L34N-00 is a low gloss and high impact nucleated polypropylene copolymer. It is designed for high speed injection molding applications and/or for compounding where high melt-state fluidity is required. This material meets the requirements of the US Food and Drug Administration as specified in 21 CFR 177.1520. Please see the L34N-00 Regulatory Position Statement for additional details.

General			
Material Status	• Commercial: Active		
Availability	• North America		
Additive	• Nucleating Agent		
Features	• High Flow • High Impact Resistance	• Impact Copolymer • Low Gloss	• Nucleated
Uses	• Compounding		
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)	34	g/10 min	ASTM D1238
Molding Shrinkage - Flow (73°F, Injection Molded)	0.015	in/in	ASTM D955
Molding Shrinkage - Across Flow (73°F, Injection Molded)	0.016	in/in	ASTM D955
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [2] (Yield, Injection Molded)	3900	psi	ASTM D638
Tensile Strength [2] (Break, Injection Molded)	2790	psi	ASTM D638
Tensile Elongation [2] (Yield, Injection Molded)	5.2	%	ASTM D638
Tensile Elongation [2] (Break, Injection Molded)	130	%	ASTM D638
Flexural Modulus - 1% Secant (Injection Molded)	173000	psi	ASTM D790A
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			ASTM D256
-4°F, Injection Molded	1.2	ft·lb/in	
73°F, Injection Molded	2.8	ft·lb/in	
Instrumented Dart Impact			ASTM D3763
-4°F, Injection Molded, Ductile Failure	No Break		
73°F, Injection Molded, Ductile Failure	No Break		
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale, Injection Molded)	89		ASTM D785
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
66 psi, Unannealed, Injection Molded	223	°F	
Deflection Temperature Under Load			ASTM D648
264 psi, Unannealed, Injection Molded	135	°F	
Brittleness Temperature	-22.0 to -4.00	°F	ASTM D746

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Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	304	°F	ASTM D1525
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating			UL 94
0.06 in, NC	HB		
0.12 in, NC	HB		
Optical	**Nominal Value**	**Unit**	**Test Method**
Gloss (60°, Injection Molded)	69		ASTM D2457

Notes

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

[2] 2.0 in/min