INEOS PP L10G-00

INEOS Olefins & Polymers USA - Polypropylene Impact Copolymer

Tuesday, November 5, 2019

General Information

Product Description

L10G-00 is a medium melt flow rate, barefoot impact copolymer polypropylene designed for injection molding, compounding applications, and consumer products. Characteristics of this grade include high impact resistance and high flexural modulus. 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	
Features	• Food Contact Acceptable • High Impact Resistance	• Impact Copolymer • Medium Flow
Uses	• Compounding	• Consumer Applications
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	0.908		ASTM D792
Melt Mass-Flow Rate (230°C/2.16 kg)	10	g/10 min	ASTM D1238
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [2] (Yield, Injection Molded)	3870	psi	ASTM D638
Tensile Strength [2] (Break, Injection Molded)	2240	psi	ASTM D638
Tensile Elongation [2] (Yield, Injection Molded)	7.0	%	ASTM D638
Tensile Elongation [2] (Break, Injection Molded)	250	%	ASTM D638
Flexural Modulus - 1% Secant (Injection Molded)	172000	psi	ASTM D790A
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			ASTM D256
-4°F, Injection Molded	0.80	ft·lb/in	
73°F, Injection Molded	2.5	ft·lb/in	
Notched Izod Impact (Area)			ASTM D256
-4°F, Injection Molded	2.09	ft·lb/in²	
73°F, Injection Molded	6.14	ft·lb/in²	
Instrumented Impact, Ductility			ASTM D3763
-4°F	Mixed		
73°F	Ductile		
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale, Injection Molded)	90		ASTM D785
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
66 psi, Unannealed, Injection Molded	199	°F	
Deflection Temperature Under Load			ASTM D648
264 psi, Unannealed, Injection Molded	125	°F	
Vicat Softening Temperature	254	°F	ASTM D1525

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Optical	Nominal Value	Unit	Test Method
Gloss (60°)	83		ASTM D2457

Notes

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

[2] 2.0 in/min