



INEOS PP L12Z-01

INEOS Olefins & Polymers USA - Polypropylene Impact Copolymer

Tuesday, November 5, 2019

General Information

Product Description

L12Z-01 is a nucleated, antistatic polypropylene impact copolymer with an excellent balance of stiffness and impact and fast injection cycles. It is specially formulated to help provide superior gloss in applications such as consumer products, housewares, and toys. This material has been recognized by UL for sustained use at 65°C and 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"> Commercial: Active 		
Availability	<ul style="list-style-type: none"> North America 		
Additive	<ul style="list-style-type: none"> Antistatic 	<ul style="list-style-type: none"> Nucleating Agent 	
Features	<ul style="list-style-type: none"> Antistatic Fast Molding Cycle 	<ul style="list-style-type: none"> Food Contact Acceptable High Gloss 	<ul style="list-style-type: none"> Impact Copolymer Nucleated
Uses	<ul style="list-style-type: none"> Consumer Applications 	<ul style="list-style-type: none"> Household Goods 	<ul style="list-style-type: none"> Toys
Agency Ratings	<ul style="list-style-type: none"> EC 1907/2006 (REACH) FDA 21 CFR 177.1520 		
RoHS Compliance	<ul style="list-style-type: none"> Contact Manufacturer 		
Forms	<ul style="list-style-type: none"> Pellets 		
Processing Method	<ul style="list-style-type: none"> 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)	3850	psi	ASTM D638
Tensile Strength ² (Break)	2490	psi	ASTM D638
Tensile Elongation ² (Yield)	7.0	%	ASTM D638
Tensile Elongation ² (Break)	160	%	ASTM D638
Flexural Modulus - 1% Secant ³	188000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-4°F	0.90	ft·lb/in	
73°F	3.4	ft·lb/in	
Notched Izod Impact (Area)			ASTM D256
-4°F	2.38	ft·lb/in ²	
73°F	8.57	ft·lb/in ²	
Instrumented Impact, Ductility			ASTM D3763
-4°F	Mixed		
73°F	Ductile		
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	84		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	220	°F	ASTM D648
Deflection Temperature Under Load			ASTM D648
264 psi, Unannealed	129	°F	
Vicat Softening Temperature	300	°F	ASTM D1525

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	Nominal Value	Unit	Test Method
Thermal			
RTI Elec (0.06 in)	149	°F	UL 746
RTI Imp (0.06 in)	149	°F	UL 746
RTI Str (0.06 in)	149	°F	UL 746
Flammability			
Flame Rating (0.06 in)	HB		UL 94
Optical			
Gloss (60°)	81		ASTM D2457

Notes

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

² 2.0 in/min

³ 0.050 in/min