



INEOS PP L12Z-00

INEOS Olefins & Polymers USA - Polypropylene Impact Copolymer

Tuesday, November 5, 2019

General Information

Product Description

L12Z-00 is a nucleated, antistatic impact copolymer with an excellent balance of high stiffness, good impact and fast injection cycles intended for use in the production of consumer products, appliances, office furniture, toys and juvenile products. 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	• Commercial: Active
Availability	• North America
Additive	• Antistatic • Nucleating Agent
Features	• Antistatic • Good Impact Resistance • Fast Molding Cycle • High Stiffness • Nucleated • Food Contact Acceptable • Impact Copolymer
Uses	• Appliances • Consumer Applications • Household Goods • Business Equipment • Furniture • Toys
Agency Ratings	• EC 1907/2006 (REACH) • FDA 21 CFR 177.1520
RoHS Compliance	• Contact Manufacturer
Forms	• Pellets
Processing Method	• 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)	4080	psi	ASTM D638
Tensile Strength ² (Break)	2720	psi	ASTM D638
Tensile Elongation ² (Yield)	5.4	%	ASTM D638
Tensile Elongation ² (Break)	110	%	ASTM D638
Flexural Modulus - 1% Secant	213000	psi	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-4°F	0.88	ft-lb/in	
73°F	2.6	ft-lb/in	
Notched Izod Impact (Area)			ASTM D256
-4°F	2.20	ft-lb/in ²	
73°F	6.57	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)	91		ASTM D785

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Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	231	°F	ASTM D648
Deflection Temperature Under Load 264 psi, Unannealed	134	°F	ASTM D648
Vicat Softening Temperature	303	°F	ASTM D1525
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	Nominal Value	Unit	Test Method
Flame Rating (0.06 in)	HB		UL 94
Optical	Nominal Value	Unit	Test Method
Gloss (60°)	75		ASTM D2457

Notes

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

² 2.0 in/min