



INEOS PP L12Z-01

INEOS Olefins & Polymers USA - Polypropylene Impact Copolymer

Tuesday, November 5, 2019

General Information

Product Description

L12Z-01 is a nucleated, antistated 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	• Commercial: Active
Availability	• North America
Additive	• Antistatic • Nucleating Agent
Features	• Antistatic • Food Contact Acceptable • Impact Copolymer • Fast Molding Cycle • High Gloss • Nucleated
Uses	• Consumer Applications • Household Goods • 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)	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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Thermal	Nominal Value	Unit	Test Method
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°)	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