

INEOS PP L12Z-00

Polypropylene Impact Copolymer

INEOS Olefins & Polymers USA

Message:

L12Z-00 is a medium melt flow rate, high-stiffness, high-impact polypropylene copolymer for use in consumer products, housewares, office furniture, toys and juvenile products. It offers excellent stiffness and impact, fast cycle time, and low statics. 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 Information			
UL YellowCard	E31830-230772		
Features	Fast Molding Cycle		
	Food Contact Acceptable		
	High Impact Resistance		
	High Stiffness		
	Impact Copolymer		
Uses	Medium Flow		
	Consumer Applications		
	Furniture		
	Household Goods		
	Toys		
Agency Ratings	EC 1907/2006 (REACH)		
	FDA 21 CFR 177.1520		
RoHS Compliance	Contact Manufacturer		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.903	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	12	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	91		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638
Yield	28.1	MPa	
Break	18.7	MPa	
Tensile Elongation ²			ASTM D638
Yield	5.4	%	
Break	110	%	
Flexural Modulus - 1% Secant	1470	MPa	ASTM D790A

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-20°C	47	J/m	
23°C	140	J/m	
Notched Izod Impact (Area)			ASTM D256
-20°C	4.62	kJ/m ²	
23°C	13.8	kJ/m ²	
Instrumented Impact, Ductility			ASTM D3763
-20°C	Mixed		
23°C	Ductile		
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	111	°C	
1.8 MPa, Unannealed	56.7	°C	
Vicat Softening Temperature	151	°C	ASTM D1525
RTI Elec (1.50 mm)	65.0	°C	UL 746
RTI Imp (1.50 mm)	65.0	°C	UL 746
RTI Str (1.50 mm)	65.0	°C	UL 746
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm)	HB		UL 94
Optical	Nominal Value		Test Method
Gloss (60°)	75		ASTM D2457
NOTE			
1.	51 mm/min		
2.	51 mm/min		

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