L12Z-01 Polypropylene Impact Copolymer

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.

Typical Properties[1]

	Values		ASTM
	English Units	SI Units	Method
Resin			
Density	—	0.903 g/cc	**D792**
Melt Flow Rate, 230°C/2.16 kg	—	12.0 g/10 min	**D1238**
Injection Molded Sample			
Tensile Strength (2 in/min)			**D638**
@ Yield	3,850 psi	26.5 MPa	
@ Break	2,490 psi	17.2 MPa	
Elongation (2 in/min)			**D638**
@ Yield	—	7%	
@ Break	—	158%	
Flexural Modulus (0.05 in/min)			**D790**
1% Secant	188,000 psi	1,300 MPa	
Notched Izod Impact Strength			**D256**
@ 23 C	3.4 ft-lbf/in	18.0 kJ/m^2	
@ - 20 C	0.9 ft-lbf/in	5.0 kJ/m^2	
Hardness			
Rockwell R	—	84	**D785**
Vicat Temperature	300 F	149 C	**D1525**
Deflection Temperature			**D648**
@ 66 psi (455 kPa)	220 F	105 C	
@ 264 psi (1,820 kPa)	129 F	54 C	
Gloss at 60° angle		81 %	**D2457**
Instrumented Impact			**D3763**
@ 23C	—	Ductile	
@ -20C	—	Mixed	
UL Recognition (1.5 mm thickness)			**UL94**
Relative Temperature Index	149 F	65 C	
Flammability Classification	—	HB	

[1] Typical properties; not to be used for specifications.

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Regulatory Information

The product and uses described herein may require global product registrations and notifications for chemical inventory listings, or for use in food contact or medical devices. For further information, please refer to the Regulatory Position Statement (RPS) online at www.ineos-op.com, or call + 1-800-527-5419.

Health and Safety Information

The product described herein may require precautions in handling and use because of toxicity, flammability, or other consideration. The Material Safety Data Sheet (MSDS) contains the available product health and safety information for this material and can be found at **www.ineos-op.com**. Before using any material, a customer is advised to consult the MSDS for the product under consideration for use.

The Material Safety Data Sheet for this product contains shipping descriptions and should be consulted, before transportation, as a reference in determining the proper shipping description. If the material shipped by INEOS O&P is altered or modified, different shipping descriptions may apply and the MSDS of the original material should not be used.

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