

L12N-00 Polypropylene Impact Copolymer

L12N-00 is a medium melt flow rate, nucleated impact copolymer polypropylene for injection molding and compounding applications. It is especially formulated for high impact resistance, high flexural modulus, and excellent gloss. Applications include automotive, consumer products, housewares, and compounding. This material meets the requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520.

Typical Properties¹

	Values		ASTM Method
	English Units	SI Units	
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	3,740 psi	25.8 MPa	
@ Break	2,620 psi	18.1 MPa	
Elongation (2 in/min)			D638
@ Yield	6 %	6 %	
@ Break	117 %	117 %	
Flexural Modulus			D790A
1% Secant	183,000 psi	1,260 MPa	
Notched Izod Impact Strength			D256
@ 23 C	3.6 ft-lbf/in	18.9 kJ/m ²	
@ -20 C	1.2 ft-lbf/in	6.0 kJ/m ²	
Hardness			
Rockwell R	88	88	D785
Vicat Temperature	299 F	148 C	D1525
Deflection Temperature			D648
@ 66 psi (455 kPa)	215 F	102 C	
@ 264 psi (1,820 kPa)	128 F	53 C	
Gloss at 60° angle	74	74	D2457
Instrumented Impact			D3763
@ 23 C	—	Ductile	
@ -20 C	—	Ductile	

¹ Typical properties; not to be used for specifications.