

# 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<sup>1</sup>

	Values		ASTM Method
	English Units	SI Units	
<b>Resin</b>			
Density	—	0.903 g/cc	D792
Melt Flow Rate, 230°C/2.16 kg	—	12.0 g/10 min	D1238
<b>Injection Molded Sample</b>			
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 <sup>2</sup>	
@ -20 C	0.9 ft-lbf/in	5.0 kJ/m <sup>2</sup>	
<b>Hardness</b>			
Rockwell R	—	84	D785
Vicat Temperature	300 F	149 C	D1525
<b>Deflection Temperature</b>			
@ 66 psi (455 kPa)	220 F	105 C	
@ 264 psi (1,820 kPa)	129 F	54 C	
Gloss at 60° angle		81 %	D2457
<b>Instrumented Impact</b>			
@ 23C	—	Ductile	D3763
@ -20C	—	Mixed	
<b>UL Recognition (1.5 mm thickness)</b>			
Relative Temperature Index	149 F	65 C	UL94
Flammability Classification	—	HB	

<sup>1</sup> Typical properties; not to be used for specifications.