

# L34N-00 Polypropylene Impact Copolymer

Grade L34N-00 is a low gloss and high impact nucleated polypropylene copolymer. It is designed for high speed injection molding applications and/or for compounding where high melt-state fluidity is required. This material meets the requirements of the US Food and Drug Administration as specified in 21 CFR 177.1520. Please see the L34N-00 Regulatory Position Statement for additional details.

## Typical Properties<sup>1</sup>

	Values		ASTM Method
	English Units	SI Units	
<b>Resin</b>			
<b>Density</b>	—	0.903 g/cc	D792
<b>Melt Flow Rate, 230°C/2.16 kg</b>	—	34.0 g/10 min	D1238
<b>Injection Molded Sample</b>			
<b>Tensile Strength (2 in/min)</b>			D638
@ Yield	3,900 psi	26.9 MPa	
@ Break	2,785 psi	19.2 MPa	
<b>Elongation (2 in/min)</b>			D638
@ Yield	5.23%	5.23%	
@ Break	132%	132%	
<b>Flexural Modulus</b>			D790A
1% Secant	173,400 psi	1,195 MPa	
<b>Notched Izod Impact Strength</b>			D256
@ 23 C	2.8 ft-lbf/in	14.7 kJ/m <sup>2</sup>	
@ -20 C	1.2 ft-lbf/in	6.2 kJ/m <sup>2</sup>	
<b>Hardness</b>			
Rockwell R	89	89	D785
<b>Vicat Softening Point</b>	304 F	151 C	D1525
<b>Heat Deflection Temperature</b>			D648
@ 66 psi (455 kPa)	223 F	106 C	
@ 264 psi (1,820 kPa)	135 F	57 C	
<b>Gloss Units, 60° angle</b>		69.2	D2457
<b>Instrumented Impact</b>			D3763
@ 23°C	Ductile	Ductile	
@ -20°C	Ductile	Ductile	
<b>Brittleness Temperature</b>	-22 to -4 F	-30 to -20 C	D746
<b>Shrinkage at 23°C, in/in</b>	MD: 1.53%	TD: 1.63%	D955
<b>UL Recognition</b>			UL94
Flammability Classification			
1.50 mm, no color, 3.00 mm, NC	HB	HB	

<sup>1</sup> Typical properties will vary and are not to be used for specifications.