

# L40N-00 Polypropylene Impact Copolymer

L40N-00 is a high melt flow rate, nucleated polypropylene impact copolymer designed for injection molding applications. L40N-00 is suitable for injection molding a wide variety of products where fast molding cycles and part durability are both desired. This material 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	—	0.902 g/cc	D792
Melt Flow Rate, 230°C/2.16 kg	—	40 g/10 min	D1238
<b>Injection Molded Sample</b>			
Tensile Strength (2 in/min)			D638
@ Yield	3,265 psi	22.5 MPa	
@ Break	2,405 psi	16.5 MPa	
Elongation (2 in/min)			D638
@ Yield	—	5.9 %	
@ Break	—	58 %	
Flexural Modulus			D790A
1% Secant	160,000 psi	1,104 MPa	
Notched Izod Impact Strength			D256
@ 23 C	2.3 ft-lb <sub>f</sub> /in	12.1 kJ/m <sup>2</sup>	
@ -20 C	1.1 ft-lb <sub>f</sub> /in	5.7 kJ/m <sup>2</sup>	
Hardness			
Rockwell R	—	79	D785
Vicat Softening Point	293 F	145 C	D1525
Deflection Temperature			D648
@ 66 psi (455 kPa)	210 F	99 C	
@ 264 psi (1,820 kPa)	129 F	54 C	
Gloss at 60° angle	—	64	D2457
Instrumented Impact			D3763
@ 23 C	—	Ductile	
@ -20 C	—	Mixed	

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