

# H12Z-00 Polypropylene Homopolymer

H12Z-00 is a nucleated and antistatic polypropylene homopolymer designed for injection molding applications such as caps and closures, consumer products, furniture, housewares, and rigid packaging. The grade benefits from fast cycle times, high stiffness, and low static charge. This material has been recognized by UL as flame class HB 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	—	0.912 g/cc	D792
Melt Flow Rate 230°C/2.16 kg	—	12 g/10 min	D1238
<b>Injection Molded Samples</b>			
Tensile Strength (2 in./min)			D638
@ Yield	5,430 psi	37.5 MPa	
@ Break	2,610 psi	18.0 MPa	
Elongation (2 in./min)			D638
@ Yield	—	8.6 %	
@ Break	—	78 %	
Flexural Modulus			D790A
1% Secant	265,900 psi	1,833 MPa	
Notched Izod Impact Strength			D256
@ 23 C	0.7 ft-lb <sub>f</sub> /in	3.8 kJ/m <sup>2</sup>	
Hardness			D785
Rockwell R	—	103	
Deflection Temperature			D648
@ 66 psi (455 kPa)	248 F	120 C	
Haze @ 23°C, 50-mil (1.3mm) plaque			D1003
% Diffuse Transmittance	—	55%	
Gloss at 60° angle (Gloss Units)	—	92	D2457
UL Recognition (3 mm thickness)			UL94
Flammability Classification	—	HB	

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