



H12Z-03 Polypropylene Homopolymer

H12Z-03 is a nucleated homopolymer polypropylene that also contains an antistat and a lubricant to provide optimal balance between processing and surface appearance. It is designed for general purpose injection molding. Typical applications include consumer products, caps and closures, and rigid packaging. It meets the requirements of the U.S. Food and Drug Administration as specified in 21CFR 177.1520.

Typical Properties¹

	Values		ASTM Method
	English Units	SI Units	
Resin			
Density	—	0.913 g/cc	D792
Melt Flow Rate 230°C/2.16 kg	—	12 g/10 min	D1238
Injection Molded Samples			
Tensile Strength (2 in/min)			D638
@ Yield	5,500 psi	37.9 MPa	
@ Break	2,600 psi	17.9 MPa	
Elongation (2 in/min)			D638
@ Yield	8.2 %	8.2 %	
@ Break	71.2 %	71.2 %	
Flexural Modulus			D790A
1% Secant	275,000 psi	1,896 MPa	
Notched Izod Impact Strength			D256
@ 23 C	0.72 ft-lbf/in	3.79 kJ/m ²	
Hardness			D785
Rockwell R	104	104	
Deflection Temperature			D648
@ 66 psi (455 kPa)	244.4 F	118 C	
Gloss at 60 ° angle (Gloss Units)	91	91	D2457

¹ Typical properties will vary and are not to be used for specifications.