

H07N-00 Polypropylene Homopolymer

H07N-00 is a nucleated homopolymer polypropylene designed for extrusion processing. Typical applications include cast film with higher stiffness requirements; cast film for hot-pack cheese applications, and flexible packaging. Performance of this resin can be customized by the addition of technical additives such as slip or anti-block by the film manufacturer. This resin meets the requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520.

Typical Properties¹

	Values		ASTM Method
	English Units	SI Units	
Resin			
Density	—	0.9015 g/cc	D792
Melt Flow Rate 230°C/2.16 kg	—	7.3 g/10 min	D1238
Injection Molded Samples			
Tensile Strength (2 in./min)			D638
@ Yield	5,773 psi	39.8 MPa	
@ Break	2,903 psi	20.0 MPa	
Elongation (2 in./min)			D638
@ Yield	6.53 %	6.53 %	
@ Break	31.2 %	31.2 %	
Flexural Modulus			D790A
1% Secant	304,000 psi	2,097 MPa	
Notched Izod Impact Strength			D256
@ 23 C	0.49 ft-lbf/in	2.59 kJ/m ²	
Hardness			D785
Rockwell R	107	107	
Heat Deflection Temperature			D648
@ 66 psi (455 kPa)	260 F	127 C	
Haze @ 23°C, 50-mil (1.3mm) plaque			D1003
% Diffuse Transmittance	38 %	38 %	
Gloss at 60 ° angle	94	94	D2457

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