

# H05A-00 Polypropylene Homopolymer

Grade H05A-00 is an antistatic polypropylene homopolymer with crack resistance and low static charge used in injection molding and extrusion applications. Typical applications are consumer products, housewares, medical packaging, and rigid packaging. This grade has been recognized by UL for sustained use at 65°C and meets the requirements of the U.S. Food and Drug Administration specified in 21 CFR 177.1520 and is Drug Master File listed.

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

	Values		ASTM Method
	English Units	SI Units	
<b>Resin</b>			
Density	—	0.911 g/cc	D792
Melt Flow Rate 230°C/2.16 kg	—	5.1 g/10 min	D1238
<b>Injection Molded Samples</b>			
Tensile Strength (2 in/min)			D638
@ Yield	5,350 psi	36.9 MPa	
@ Break	2,610 psi	18.0 MPa	
Elongation (2 in/min)			D638
@ Yield	—	9.2 %	
@ Break	—	142 %	
Flexural Modulus			D790A
1% Secant	249,000 psi	1,710 MPa	
Notched Izod Impact Strength			D256
@ 23 C	0.76 ft-lbf/in	4.0 kJ/m <sup>2</sup>	
Hardness			D785
Rockwell R	—	103	
Deflection Temperature			D648
@ 66 psi (455 kPa)	220 F	104 C	
Haze @ 23°C, 50-mil (1.3mm) plaque			D1003
% Diffuse Transmittance	—	73 %	
Gloss at 60° angle	—	93	D2457
UL Recognition (3.0 mm thickness)			UL94
Relative Temperature Index	149 F	65 C	
Flammability Classification	—	HB	

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