

H02C-04 Polypropylene Homopolymer

H02C-04 is a low flow rate, high clarity, nucleated homopolymer designed for extrusion, thermoforming, blow molding and rigid packaging applications that require good see-through clarity combined with good heat resistance. H02C-04 utilizes new nucleator technology that gives the finished part a slight bluish hue resulting in a clearer and crisper-looking final product. Typical applications include thermoformed cups, containers and lidding; extrusion blow molded containers and bottles, injection stretch blow molded containers and bottles and extruded sheets and profiles. This material 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	—	0.909 g/cc	D792
Melt Flow Rate 230°C/2.16 kg	—	2.3 g/10 min	D1238
Injection Molded Samples			
Tensile Strength (2 in/min)			D638
@ Yield	5,300 psi	36.5 MPa	
@ Break	2,700 psi	18.6 MPa	
Elongation (2 in/min)			D638
@ Yield	9.7 %	9.7 %	
@ Break	100 %	100 %	
Flexural Modulus			D790A
1% Secant	233,000 psi	1,610 MPa	
Notched Izod Impact Strength			D256
@ 23 C	1.2 ft-lbf/in	6.5 kJ/m ²	
Gloss at 60° angle (Gloss Units)	95	95	D2457
Haze, @ 23°C, 50-mil (1.3mm) plaque			D1003
% Diffuse Transmittance	31 %	31 %	
Hardness			D785
Rockwell R	103	103	
Heat Deflection Temperature			D648
@ 66 psi (455 kPa)	230 F	110 C	
Vicat Softening Point	309 F	154 C	D1525

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