

J60-1700-173 Polyethylene Homopolymer

J60-1700-173 is a high density polyethylene homopolymer. This resin is characterized by a narrow molecular weight distribution. Parts fabricated from this material exhibit excellent gloss and rigidity. This material meets the Food and Drug Administration requirements of 21CFR 177.1520.

Typical Properties¹

	Values		ASTM Method
	English Units	SI Units	
Resin			
Density	—	0.961 g/cc	D4883
Melt Index 190 C/2.16 kg	—	16 g/10 min	D1238
Melt Index 190 C/ 21.6 kg	—	355 g/10 min	D1238
Compression Molded Sample			
Tensile Strength (2 in/min)			D638
@ Yield	4,580 psi	31.6 MPa	
@ Break	2,650 psi	18.3 MPa	
Elongation (2 in/min)			D638
@ Yield	8%	8%	
@ Break	30%	30%	
Flexural Modulus			
2% Secant Method	184,000 psi	1,270 MPa	D790A
Notched Izod Impact Strength	0.59 ft-lbf/in	3.07 kJ/m ²	D256
Hardness			D2240
Shore D	62	62	
Heat Deflection Temperature	182 F	83 C	D648
@ 66 psi (454 kPa)			
Environmental Stress Crack Resistance			D1693
Condition B, 100% Igepal, F50 (hrs.)	1.4	1.4	

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