

A60-70-162 Polyethylene Homopolymer

A60-70-162 is a high density polyethylene homopolymer, developed specifically for blow molding food containers on reciprocating screw-type equipment. It exhibits excellent processing characteristics and extremely low odor in the finished container. This material meets the Food and Drug Administration requirements of 21CFR 177.1520.

Typical Properties¹

	Values		ASTM Method
	English Units	SI Units	
Resin			
Density	—	0.963 g/cc	D4883
Melt Index 190°C/2.16 kg	—	0.72 g/10 min	D1238
Compression Molded Samples			
Tensile Strength (2 in/min)			D638
@ Yield	4,500 psi	31.0 MPa	
@ Break	2,000 psi	13.8 MPa	
Elongation (2 in/min)			D638
@ Yield	8%	8%	
@ Break	>600%	>600%	
Flexural Modulus			D790A
Tangent Method	240,000 psi	1650 MPa	
2% Secant Method	190,000 psi	1311 MPa	
Notched Izod Impact Strength	4.8 ft-lbf/in	25.2 kJ/m ²	D256
Hardness (Shore D)	70	70	D2240
Vicat Softening Point	264 F	129 C	D1525
Brittleness Temperature	<-103 F	<-75 C	D746
Heat Deflection Temperature			D648
@ 66 psi (455 kPa)	178 F	81 C	
@ 264 psi (1,820 kPa)	120 F	49 C	
Environmental Stress Crack Resistance			D1693
Condition B, 100% Igepal, F50 (hrs.)	8 hrs	8 hrs	

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