

# J60-800-178 Polyethylene Copolymer

J60-800-178 is a high density polyethylene homopolymer intended for the injection molding of beverage closures. Because of its excellent organoleptic properties, this grade is certified as low taste and is intended for use in direct contact with beverages. Parts fabricated from this material exhibit a glossy surface finish and have good impact strength and rigidity. Typical applications include caps and closures for the packaging of still and other injection molded applications where low taste and odor are critical. This material meets the Food and Drug Administration requirements of 21 CFR 177.1520.

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

	Values		ASTM Method
	English Units	SI Units	
<b>Resin</b>			
Density	—	0.9608 g/cc	D4883
Melt Index 190 C/2.16 kg	—	8.0 g/10 min	D1238
<b>Compression Molded Sample</b>			
Tensile Strength (2 in/min)			D638
@ Yield	4,550 psi	31.0 MPa	
@ Break	2,293 psi	22.0 MPa	
Elongation (2 in/min)			D638
@ Yield	8.3 %	8.3 %	
@ Break	940 %	940 %	
Flexural Modulus			D790A
Tangent Method	238,830 psi	1,647 MPa	
Notched Izod Impact Strength	0.71 ft-lbf/in	3.75 kJ/m <sup>2</sup>	D256
Hardness			D2240
Shore D	70	70	
Vicat Softening Point	262.5 F	128 C	D1525
Brittleness Temperature	<-94 F	<-70 C	D746
Heat Deflection Temperature			D648
@ 66 psi (455 kPa)	174 F	79 C	
Environmental Stress Crack Resistance			D1693
Condition B, 100% Igepal, F50 (hrs.)	4	4	

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