

INEOS HDPE J60-800-178

High Density Polyethylene
INEOS Olefins & Polymers USA

Technical Data

Product Description

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

Typical Applications

- Caps and closures for the packaging of still and sparkling water
- Injection molded applications where low taste and odor are critical.

General

Material Status	• Commercial: Active		
Literature ¹	• Processing - Injection Molding (English) • Technical Datasheet (English)		
Search for UL Yellow Card	• INEOS Olefins & Polymers USA		
Availability	• North America		
Features	• Food Contact Acceptable • Good Organoleptic Properties • High Gloss	• High Impact Resistance • High Rigidity • Homopolymer	• Low to No Odor • Low to No Taste • Puncture Resistant
Uses	• Caps	• Packaging	
Agency Ratings	• FDA 21 CFR 177.1520		
RoHS Compliance	• Contact Manufacturer		
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical	Nominal Value Unit	Test Method
Density	0.961 g/cm ³	ASTM D4883
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	8.0 g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance 100% Igepal	5.00 hr	ASTM D1693B
Mechanical	Nominal Value Unit	Test Method
Tensile Strength ³ (Yield)	32.4 MPa	ASTM D638
Tensile Elongation ³ (Break)	> 800 %	ASTM D638
Flexural Modulus - Tangent	1660 MPa	ASTM D790
Impact	Nominal Value Unit	Test Method
Notched Izod Impact	53 J/m	ASTM D256
Hardness	Nominal Value Unit	Test Method
Durometer Hardness (Shore D)	65	ASTM D2240
Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load 0.45 MPa, Unannealed	86.7 °C	ASTM D648
Brittleness Temperature	< -75.0 °C	ASTM D746
Vicat Softening Temperature	128 °C	ASTM D1525

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.

³ 51 mm/min