

INEOS HDPE A60-70-162

High Density Polyethylene
INEOS Olefins & Polymers USA

Technical Data

Product Description

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. This resin is Kosher certified.

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 Processability	• High Density • Homopolymer	• Low to No Odor
Uses	• Blown Containers		
Agency Ratings	• FDA 21 CFR 177.1520		
RoHS Compliance	• Contact Manufacturer		
Forms	• Pellets		
Processing Method	• Blow Molding		

Physical	Nominal Value Unit	Test Method
Density	0.963 g/cm³	ASTM D4883
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.72 g/10 min	ASTM D1238

Mechanical	Nominal Value Unit	Test Method
Tensile Strength ³ (Yield)	31.0 MPa	ASTM D638
Tensile Elongation ³ (Break)	600 %	ASTM D638
Apparent Bending Modulus	862 MPa	ASTM D747
Flexural Modulus		ASTM D790
2% Secant	1240 MPa	
Tangent	1550 MPa	

Impact	Nominal Value Unit	Test Method
Notched Izod Impact	190 J/m	ASTM D256
Tensile Impact Strength	208 kJ/m²	ASTM D1822

Hardness	Nominal Value Unit	Test Method
Durometer Hardness (Shore D)	66	ASTM D2240

Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load 0.45 MPa, Unannealed	84.0 °C	ASTM D648
Brittleness Temperature	-75.0 °C	ASTM D746
Vicat Softening Temperature	131 °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