

INEOS HDPE A60-70-162

High Density Polyethylene

INEOS Olefins & Polymers USA

Message:

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.

General Information			
Features	Food Contact Acceptable		
	Good Processability		
	High Density		
	Homopolymer		
	Low to No Odor		
Uses	Food Containers		
Agency Ratings	EC 1907/2006 (REACH)		
	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/cm ³	ASTM D4883
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.72	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (100% Igepal, F50)	8.00	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	70		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638
Yield	31.0	MPa	
Break	13.8	MPa	
Tensile Elongation ²			ASTM D638
Yield	8.0	%	
Break	> 600	%	
Flexural Modulus			ASTM D790A
2% Secant	1310	MPa	
Tangent	1650	MPa	
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact	260	J/m	ASTM D256
Notched Izod Impact (Area)	25.2	kJ/m ²	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	81.1	°C	
1.8 MPa, Unannealed	48.9	°C	
Brittleness Temperature	< -75.0	°C	ASTM D746
Vicat Softening Temperature	129	°C	ASTM D1525
NOTE			
1.	51 mm/min		
2.	51 mm/min		

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