

INEOS HDPE G60-25-144

High Density Polyethylene
INEOS Olefins & Polymers USA

Message:

G60-25-144 is a high density polyethylene homopolymer typically used in the production of sheet extrusion and blow molded containers. This material meets the Food and Drug Administration requirements of 21CFR 177.1520.

General Information	
UL YellowCard	E31830-100062233
Features	Food Contact Acceptable
	High Density
	Homopolymer
Uses	Blow Molding Applications
	Containers
	Sheet
Agency Ratings	EC 1907/2006 (REACH)
	FDA 21 CFR 177.1520
RoHS Compliance	Contact Manufacturer
Forms	Pellets
Processing Method	Blow Molding
	Sheet Extrusion

Physical	Nominal Value	Unit	Test Method
Density	0.960	g/cm ³	ASTM D4883
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.25	g/10 min	
190°C/21.6 kg	26	g/10 min	
Environmental Stress-Cracking Resistance (100% Igepal, F50)	20.0	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	65		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638
Yield	31.0	MPa	
Break	31.0	MPa	
Tensile Elongation ²			ASTM D638
Yield	9.0	%	
Break	950	%	

Flexural Modulus - 2% Secant	1360	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	450	J/m	ASTM D256
Notched Izod Impact (Area)	44.7	kJ/m ²	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	79.4	°C	ASTM D648
Brittleness Temperature	< -75.0	°C	ASTM D746
Vicat Softening Temperature	129	°C	ASTM D1525
Oxidation Induction Time (210°C)	> 15	min	ASTM D3895
NOTE			
1.	51 mm/min		
2.	51 mm/min		

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

