

INEOS HDPE K44-11-128

High Density Polyethylene Copolymer

INEOS Olefins & Polymers USA

Message:

K44-11-128 is a high molecular weight, high density polyethylene copolymer for large part blow molding. It combines excellent processability and outstanding physical performance, particularly environmental stress crack resistance (ESCR) and impact properties. This resin meets the Food and Drug Administration requirements of 21CFR 177.1520.

General Information			
Features	Copolymer		
	Food Contact Acceptable		
	Good Impact Resistance		
	Good Processability		
	High Density		
	High ESCR (Stress Crack Resist.)		
	High Molecular Weight		
Uses	Blow Molding Applications		
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	0.947	g/cm ³	ASTM D4883
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	12	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (100% Igepal, F50)	> 2000	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	63		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638
Yield	24.1	MPa	
Break	37.9	MPa	
Tensile Elongation ²			ASTM D638
Yield	11	%	
Break	900	%	
Flexural Modulus			ASTM D790A
2% Secant	841	MPa	

Tangent	1130	MPa	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	310	J/m	ASTM D256
Notched Izod Impact (Area)	30.3	kJ/m ²	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	65.0	°C	
1.8 MPa, Unannealed	45.0	°C	
Brittleness Temperature	< -75.0	°C	ASTM D746
Vicat Softening Temperature	123	°C	ASTM D1525
NOTE			
1.	51 mm/min		
2.	51 mm/min		

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