

INEOS HDPE HP55-25-155

High Density Polyethylene Copolymer

INEOS Olefins & Polymers USA

Message:

HP55-25-155 is a high performance high density polyethylene copolymer for use in blow molding applications requiring a good balance of stiffness and environmental stress crack resistance (ESCR). This product meets the Food and Drug Administration requirements of 21CFR 177.1520.

General Information			
Features	Copolymer		
	Food Contact Acceptable		
	High Density		
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	0.955	g/cm ³	ASTM D4883
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.22	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (100% Igepal, F50)	80.0	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	64		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638
Yield	28.3	MPa	
Break	29.6	MPa	
Tensile Elongation ²			ASTM D638
Yield	10	%	
Break	850	%	
Flexural Modulus			ASTM D790A
2% Secant	1100	MPa	
Tangent	1410	MPa	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	140	J/m	ASTM D256
Notched Izod Impact (Area)	13.7	kJ/m ²	ASTM D256
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	71.1	°C	
1.8 MPa, Unannealed	47.8	°C	
Brittleness Temperature	< -75.0	°C	ASTM D746
Vicat Softening Temperature	127	°C	ASTM D1525
NOTE			
1.	51 mm/min		
2.	51 mm/min		

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