

INEOS HDPE HP53-25-155

High Density Polyethylene Copolymer

INEOS Olefins & Polymers USA

Message:

HP53-25-155 is a high performance high density polyethylene copolymer for use in blow molding applications requiring excellent environmental stress crack resistance (ESCR). This product meets the Food and Drug Administration requirements of 21CFR 177.1520.

General Information			
UL YellowCard	E31830-100062234		
Features	Copolymer		
	Food Contact Acceptable		
	High Density		
	High ESCR (Stress Crack Resist.)		
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	0.952	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)	200	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	68		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638
Yield	26.9	MPa	
Break	27.6	MPa	
Tensile Elongation ²			ASTM D638
Yield	10	%	
Break	> 700	%	
Flexural Modulus			ASTM D790A
2% Secant	938	MPa	
Tangent	1140	MPa	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	300	J/m	ASTM D256

Notched Izod Impact (Area)	12.0	kJ/m ²	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	68.9	°C	
1.8 MPa, Unannealed	45.0	°C	
Brittleness Temperature	< -75.0	°C	ASTM D746
Vicat Softening Temperature	125	°C	ASTM D1525
NOTE			
1.	51 mm/min		
2.	51 mm/min		

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