

INEOS HDPE B54-25H-127

High Density Polyethylene Copolymer

INEOS Olefins & Polymers USA

Message:

B54-25H-127 is a high density polyethylene copolymer developed for blow molding. It is recommended for use in applications which require a combination of high top load strength and good environmental stress crack resistance (ESCR). This material contains a fully FDA sanctioned antistat and meets Food and Drug Administration requirements of 21CFR 177.1520.

General Information			
Additive	Antistatic		
Features	Antistatic		
	Copolymer		
	Food Contact Acceptable		
	High Density		
	High ESCR (Stress Crack Resist.)		
	High Strength		
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)	0.35	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (100% Igepal, F50)	30.0	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	27.6	MPa	
Break	17.2	MPa	
Tensile Elongation ²			ASTM D638
Yield	9.0	%	
Break	> 600	%	
Flexural Modulus			ASTM D790A
2% Secant	1030	MPa	

Tangent	1450	MPa	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	170	J/m	ASTM D256
Notched Izod Impact (Area)	16.0	kJ/m ²	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	75.0	°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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