

INEOS HDPE B50-35H-176

High Density Polyethylene Copolymer

INEOS Olefins & Polymers USA

Message:

B50-35H-176 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 the 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.)		
Uses	High Strength		
	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	0.951	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)	40.0	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	25.5	MPa	
Break	20.7	MPa	
Tensile Elongation ²			ASTM D638
Yield	10	%	
Break	> 600	%	
Flexural Modulus			ASTM D790A
2% Secant	931	MPa	

Tangent	1240	MPa	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	150	J/m	ASTM D256
Notched Izod Impact (Area)	14.4	kJ/m ²	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	72.2	°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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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

