

INEOS HDPE B53-35H-011

High Density Polyethylene Copolymer

INEOS Olefins & Polymers USA

Message:

B53-35H-011 is a high density polyethylene copolymer developed for blow molding applications. This product is recommended for use in applications which require a combination of high top load strength and good environmental stress crack resistance (ESCR). This material meets the Food and Drug Administration requirements of 21CFR 177.1520.

General Information			
UL YellowCard	E31830-100062231		
Features	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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