

Osterlene® HB3553

High Density Polyethylene

Osterman & Company

Message:

HB3553 is a high density polyethylene copolymer developed for blow molding applications.

HB3553 is recommended for use in applications which require a combination of high top load strength and good environmental stress crack resistance (ESCR).

Osterlene HB3553 meets the requirements of the Food and Drug Administration, 21 CFR Section 177.1520. This regulation allows the use of this olefin polymer in "...articles or components of articles intended for use in contact with food." Specific limitations may apply. Contact your Osterman sales representative for more information.

General Information			
Features	High ESCR (Stress Cracking Resistance)		
	High strength		
	Copolymer		
Agency Ratings	FDA 21 CFR 177.1520		
Processing Method	Blow molding		
Physical	Nominal Value	Unit	Test Method
Density	0.953	g/cm³	ASTM D4883
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.35	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance			
F50	35.0	hr	ASTM D1693B
100% Igepal, F50	45.0	hr	ASTM D1693A
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	65		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	27.6	MPa	ASTM D638
Tensile Elongation ² (Break)	> 700	%	ASTM D638
Flexural Modulus - Tangent	1240	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	190	J/m	ASTM D256
Tensile Impact Strength	277	kJ/m²	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	73.9	°C	ASTM D648
Brittleness Temperature	< -75.0	°C	ASTM D746
Vicat Softening Temperature	131	°C	ASTM D1525
NOTE			
1.	51 mm/min		
2.	51 mm/min		

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