

Borcoat™ HE3450-H

High Density Polyethylene

Borealis AG

Message:

Borcoat HE3450-H is a bimodal, high density polyethylene compound and is coloured black

Borcoat HE3450-H contains finely dispersed carbon black that helps to impart excellent weathering properties.

General Information			
Additive	Carbon black (2%)		
Features	High ESCR (Stress Cracking Resistance)		
	Recyclable materials		
	Good melt strength		
	Good weather resistance		
	Bimodal molecular weight distribution		
Uses	Pipeline coating		
Agency Ratings	CSA Z245.21		
	DIN 30670		
	ISO FDIS 21809-1		
	NF A 49-710		
Appearance	Black		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density			ISO 1183
-- ¹	0.961	g/cm ³	ISO 1183
-- ²	0.951	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	0.70	g/10 min	ISO 1133
190°C/5.0 kg	2.9	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance (10% Igepal)	> 5000	hr	ASTM D1693A
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 15 sec)	62		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	> 25.0	MPa	ASTM D638
Tensile Elongation (Break)	> 600	%	ASTM D1708
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	124	°C	ISO 306/A50
Melting Temperature (DSC)	129	°C	ISO 3146
Electrical	Nominal Value	Unit	Test Method

Volume Resistivity	10	ohms·cm	ASTM D257
Dielectric Strength	> 30	kV/mm	IEC 60243-1
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	190 - 210	°C	
Cylinder Zone 2 Temp.	190 - 210	°C	
Cylinder Zone 3 Temp.	190 - 210	°C	
Cylinder Zone 4 Temp.	190 - 210	°C	
Cylinder Zone 5 Temp.	190 - 210	°C	
Melt Temperature	200 - 230	°C	
Die Temperature	190 - 210	°C	
Extrusion instructions			
Head Temperature: 190 to 210°C			
NOTE			
1.	Compound		
2.	Base Resin		

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