

# Borstar® HE3410

High Density Polyethylene

Borealis AG

## Message:

Borstar HE3410 is a bimodal polyethylene compound produced by the advanced Borstar technology.  
Well dispersed carbon black gives outstanding UV resistance. Long term stability is ensured by an optimised stabilisation system.  
Borstar HE3410 is classified as an MRS 8.0 material (PE80).

General Information			
Additive	Carbon black (2%)		
	Unspecified stabilizer		
Features	Good UV resistance		
	Recyclable materials		
	Good stability		
Uses	Semiconductor molding compound		
	Piping system		
	Pipe fittings		
Agency Ratings	PPI PE-80		
Appearance	Black		
Forms	Particle		
Processing Method	Pipeline extrusion molding		
	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density <sup>1</sup>	0.956	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	0.30	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	60		ISO 868
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (0°C)	14	kJ/m <sup>2</sup>	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	70.0	°C	ISO 75-2/B
Brittleness Temperature	< -70.0	°C	ASTM D746
Vicat Softening Temperature	72.0	°C	ISO 306/B50
Oxidation Induction Time <sup>2</sup> (210°C)	> 15	min	
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	180 - 210	°C	

Cylinder Zone 2 Temp.	180 - 210	°C
Cylinder Zone 3 Temp.	180 - 210	°C
Cylinder Zone 4 Temp.	180 - 210	°C
Cylinder Zone 5 Temp.	180 - 210	°C
Melt Temperature	200 - 210	°C
Die Temperature	200 - 210	°C

#### Extrusion instructions

Head Temperature: 200 to 210°C

#### NOTE

1. Compound
2. EN 728

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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

