

# BorSafe™ ME3444

Medium Density Polyethylene

Borealis AG

## Message:

BorSafe ME3444 is a bimodal polyethylene compound produced by the advanced Borstar technology. It includes a combination of pigments and stabilisers to ensure excellent long-term thermal stability and UVresistance. BorSafe ME3444 is classified as an MRS 8.0 material (PE80). BorSafe ME3444 is recommended for pressure pipe systems in the application fields of drinking water particulary where flexibility and coilability is of importance. It also shows excellent resistance to rapid crack propagation and slow crack growth. Thanks to the structure, it gives outstanding extrudability, compared to conventional PE80.

General Information			
Additive	Unspecified stabilizer UV stabilizer		
Features	Good UV resistance Good cracking resistance Good flexibility Thermal stability, good		
Uses	Piping system		
Agency Ratings	PPI PE-80		
Appearance	Blue		
Forms	Particle		
Processing Method	Pipeline extrusion molding Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.943	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	0.90	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	800	MPa	ISO 527-2/1
Tensile Stress (Yield)	19.0	MPa	ISO 527-2/50
Tensile Strain (Break)	> 500	%	ISO 527-2
Resistance to Slow Crack Growth <sup>1</sup> (80°C)	> 2000	hr	ISO 13479
resistant to rapid crack propagation, Pc-S4 test <sup>2</sup> (0°C)	> 6.00	bar	ISO 13477
Oxidation Induction Time <sup>3</sup> (200°C)	> 20	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.	18.0 - 210	°C
Melt Temperature	200 - 220	°C
Die Temperature	200 - 210	°C

Extrusion instructions

Head: 200 to 210°C

NOTE

1.	8 bar
2.	Test pipe 110 mm, SDR11
3.	EN 728

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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

