

# BorSafe™ ME3440

Medium Density Polyethylene

Borealis AG

## Message:

BorSafe ME3440 is a bimodal polyethylene compound produced by the advanced Borstar technology.

BorSafe ME3440 is classified as an MRS 8.0 material (PE80).

BorSafe ME3440 is recommended for pressure pipe systems in the applications field of particularity 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	
Features	Workability, good
	Good cracking resistance
	Good flexibility
Uses	Industrial application
	Piping system
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>	0.951	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	0.85	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)	> 800	%	ISO 527-2
Resistance to Slow Crack Growth <sup>2</sup> (80°C)	2000	hr	ISO 13479
resistant to rapid crack propagation, Pc-S4 test <sup>3</sup> (0°C)	> 6.00	bar	ISO 13477
Oxidation Induction Time <sup>4</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.	180 - 210	°C	
Melt Temperature	200 - 220	°C	

Die Temperature	200 - 210	°C
Extrusion instructions		
Head: 200 to 210°C		
NOTE		
1.	Compound	
2.	8 bar	
3.	Test pipe 250 mm, SDR11	
4.	EN 728	

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#### Recommended distributors for this material

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