

BorSafe™ ME3441

Medium Density Polyethylene

Borealis AG

Message:

BorSafe ME3441 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 UV-resistance.

BorSafe ME3441 is classified as an MRS 8.0 material (PE80).

BorSafe ME3441 is recommended for pressure pipe systems in the applications field of: natural gas particularly 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 Workability, good Good cracking resistance Good flexibility Thermal stability, good		
Uses	Piping system		
Agency Ratings	PPI PE-80		
Appearance	Yellow		
Forms	Particle		
Processing Method	Pipeline extrusion molding Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.944	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	0.80	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 ¹ (80°C)	> 2000	hr	ISO 13479
resistant to rapid crack propagation, Pc-S4 test ² (0°C)	> 6.00	bar	ISO 13477
Oxidation Induction Time ³ (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.	8 bar
2.	Test pipe 250 mm, SDR11
3.	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

