

## Borealis BorSafe™ ME3420 MDPE Compound for Pressure Pipes

Category : Polymer , Thermoplastic , Polyethylene (PE) , MDPE

### Material Notes:

BorSafe™ ME3420 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 optimized stabilization system. BorSafe™ ME3420 is classified as an MRS 8.0 material (PE80). Applications: BorSafe™ ME3420 is recommended for pressure pipe systems in the applications field of: drinking water, natural gas, industrial, relining, geothermal collector, and irrigation particularly where flexibility and coil ability is of importance. Thanks to its bimodal structure, it also shows excellent resistance to rapid crack propagation and slow crack growth. Information provided by Borealis AG

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Borealis-BorSafe-ME3420-MDPE-Compound-for-Pressure-Pipes.php](http://www.lookpolymers.com/polymer_Borealis-BorSafe-ME3420-MDPE-Compound-for-Pressure-Pipes.php)

Physical Properties	Metric	English	Comments
Density	0.948 g/cc	0.0342 lb/in <sup>3</sup>	ISO 1183
Environmental Stress Crack Resistance	>= 5.0 hour @Pressure 0.800 MPa, Temperature 80.0 °C	>= 5.0 hour @Pressure 116 psi, Temperature 176 °F	ISO 13479
Oxidative Induction Time (OIT)	>= 20 min @Temperature 200 °C	>= 20 min @Temperature 392 °F	EN 728
Melt Flow	0.40 g/10 min @Load 5.00 kg, Temperature 190 °C	0.40 g/10 min @Load 11.0 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	19.0 MPa	2760 psi	50mm/min; ISO 527-2
Elongation at Break	>= 600 %	>= 600 %	ISO 527-2
Flexural Modulus	0.700 GPa	102 ksi	ISO 178

Processing Properties	Metric	English	Comments
Middle Barrel Temperature	180 - 210 °C	356 - 410 °F	cylinder
Die Temperature	200 - 210 °C	392 - 410 °F	
Melt Temperature	200 - 220 °C	392 - 428 °F	
Head Temperature	200 - 210 °C	392 - 410 °F	

Descriptive Properties	Value	Comments
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Crack Propagation (bar)

at 0°C, test pipe 250mm, SDR11, ISO 13477

## Contact Songhan Plastic Technology Co.,Ltd.

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