

## Borealis Borstar® HE3470-LS Black HDPE Compound for Pressure Pipes

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Pipe Grade

### Material Notes:

Borstar HE3470-LS is a black, high density polyethylene compound classified as an MRS 8.0 material (PE80) produced by the advanced Borstar technology. Well dispersed carbon black gives outstanding UV resistance. Long term stability is ensured by an optimized stabilization system. Borstar HE3470-LS is recommended for pressure piping system systems in the application field of drinking water, natural gas, pressure sewage, relining, sea outfall and industrial. The combination of high mechanical strength and excellent long term performance together with improved sagging performance makes it the ideal pressure pipe material. Information provided by the Manufacturer.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Borealis-Borstar-HE3470-LS-Black-HDPE-Compound-for-Pressure-Pipes.php](http://www.lookpolymers.com/polymer_Borealis-Borstar-HE3470-LS-Black-HDPE-Compound-for-Pressure-Pipes.php)

Physical Properties	Metric	English	Comments
Density	0.956 g/cc	0.0345 lb/in <sup>3</sup>	Compound; ISO 1183
Environmental Stress Crack Resistance	>= 2000 hour @Temperature 80.0 °C	>= 2000 hour @Temperature 176 °F	At 8.0 bar; ISO 13479
Carbon Black Loading	>= 2.0 %	>= 2.0 %	ASTM D1603
Melt Flow	0.30 g/10 min @Load 5.00 kg, Temperature 190 °C	0.30 g/10 min @Load 11.0 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	22.0 MPa	3190 psi	At 50 mm/min; ISO 527-2
Elongation at Break	>= 600 %	>= 600 %	ISO 527-2
Tensile Modulus	1.00 GPa	145 ksi	At 1 mm/min; ISO 527-2

Processing Properties	Metric	English	Comments
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
Resistance to Rapid Crack Propagation, BAR	8	ISO 13477, Pc at 0°C, S4 / pipe size 250 mm SDR 11

## **Contact Songhan Plastic Technology Co.,Ltd.**

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