

Polyethylene

Borstar® HE3460

BLACK HDPE FOR SPRINKLER PIPE

DESCRIPTION

HE3460 is a black high density polyethylene for sprinkler pipe application.

The combination of high mechanical strength and long term performance makes **HE3460** a good sprinkler pipe material. Well dispersed carbon black gives outstanding UV resistance. Long term stability is ensured by an optimised stabilisation system.

PROPERTIES

	Typical Value*	Unit	Test Method
Density (Compound)	960	kg/m ³	ISO 1183/ISO 1872-2B
Melt Flow Rate (190°C/5.0 kg)	0.7	g/10 min	ISO 1133
Carbon black content	≥ 2	%	ASTM D 1603
Tensile stress at yield	>19	MPa	ISO/DIS 6259
Elongation at break	> 600	%	ISO/DIS 6259
Brittleness temperature	< -70	°C	ASTM D 746
Thermal stability (200°C)	20	min	EN 728

* Data should not be used for specification work

PROCESSING GUIDELINES

The actual extrusion conditions will depend on the type of equipment used. They will also depend on size and wall thickness of the pipe produced. The following conditions may be used as a guideline when starting up the extruder.

Cylinder	170 - 200°C
Head	190 - 200°C
Die	180 - 190°C

For normal extrusion conditions and applications we suggest preheating and drying with a maximum preheating temperature of 90°C for minimum 1 hour.

Specific recommendations for processing conditions can be determined only when the application and type of equipment are known. Please contact your local Borouge representative for such particulars.

STORAGE AND HANDLING

The product should be stored in dry conditions at temperatures below 60°C and protected from UV-light.

Improper storage can initiate degradation.

SAFETY

HE3460 is not classified as a dangerous preparation.

Dust and fines from the product may give a risk for dust explosion. All equipment should be properly earthed.

Inhalation of dust may irritate the respiratory system and should be avoided.

During processing of the product small amounts of fumes are generated, which require proper ventilation.

RECYCLING

The product is suitable for recycling using modern methods of shredding and cleaning but for pipe applications only if approved in the relevant standard or specification. In-house production waste should be kept clean to facilitate direct recycling.

A Safety Datasheet is available on request. Please contact your Borouge representative for more details on various aspects of safety, recovery and disposal of the product.

DISCLAIMER

The product(s) mentioned herein are not intended to be used for medical, pharmaceutical or healthcare applications and we do not support their use for such applications.

To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication, however we do not assume any liability whatsoever for the accuracy and completeness of such information.

Borouge makes no warranties which extend beyond the description contained herein. Nothing herein shall constitute any warranty of merchantability or fitness for a particular purpose.

It is the customer's responsibility to inspect and test our products in order to satisfy itself as to the suitability of the products for the customer's particular purpose. The customer is responsible for the appropriate, safe and legal use, processing and handling of our products.

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