



Polyethylene

Borstar HE6067

Good abrasion & scratch resistance
 Low water permeability
 Low heat deformation
 Good petroleum-jelly resistance

Termite resistance
 Outstanding UV resistance
 Very low shrinkage
 Excellent surface hardness

Physical Properties

Property	Typical Value	Test Method
Data should not be used for specification work		
Density (Base Resin)	942 kg/m ³	ISO 1872-2/ISO 1183
Density (Compound)	954 kg/m ³	ISO 1872-2/ISO 1183
Melt Flow Rate (190 °C/2,16 kg)	1,7 g/10min	ISO 1133
Flexural Modulus	900 MPa	ASTM D 790
Tensile Strain at Break (50 mm/min)	900 %	ISO 527
Tensile Strength (50 mm/min)	29 MPa	ISO 527
Brittleness temperature	< -76 °C	ASTM D 746
Environmental Stress Crack Resistance (50 °C) (Igepal 10 %), (F0) ¹	> 5.000 h	IEC 60811-4-1/B
Hardness, Shore D (1 s)	61	ISO 868
Hardness, Shore D (3 s)	58	DIN 53505
Pressure Test at High Temperature (115 °C, 6 h)	< 10 %	IEC 60811-3-1

¹ No crack

Electrical Properties

Property	Typical Value	Test Method
Data should not be used for specification work		
DC Volume Resistivity	10 POhm.cm	IEC 60093
Dielectric Strength	20 kV/mm	IEC 60243

Processing Techniques

Borstar HE6067 provides excellent surface finish and allows a broad processing window. For extrusion standard PE-screws are recommended, but also screws designed for PVC can be used with good result. To minimise shrink back gradient cooling with hot water, minimum 60°C in the first part of the cooling trough, is strongly recommended.

Extrusion

If preheating and/or drying is used, the maximum temperature should be 90°C.

Preheating	90 °C	Maximum recommended temperature
Melt temperature	180 - 190 °C	
Cooling water	60 °C	First part of cooling trough



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Packaging

Package: Bulk
 Octabins
 Bags

Safety

The product is not classified as dangerous and is intended for industrial use only. Check and follow local codes and regulations!

Please see our "Safety data sheet" / "Product safety information sheet" for details on various aspects of safety of the product. For more information, contact your Borealis representative.

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.

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