

## Borealis Borcell™ HE1105 High Density Polyethylene Compound for Gas Injection of Cellular Coaxial Cables

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

### Material Notes:

Borcell HE1105 is a high-density polyethylene (HDPE) compound formulated with specific viscosity and melt strength characteristics.

Borcell HE1105 is intended for the insulations of coaxial cables using gas foaming processes and is suitable for constructions exceeding 10-mm diameter over the dielectric. Information provided by the Manufacturer.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Borealis-Borcell-HE1105-High-Density-Polyethylene-Compound-for-Gas-Injection-of-Cellular-Coaxial-Cables.php](http://www.lookpolymers.com/polymer_Borealis-Borcell-HE1105-High-Density-Polyethylene-Compound-for-Gas-Injection-of-Cellular-Coaxial-Cables.php)

Physical Properties	Metric	English	Comments
Density	0.947 g/cc	0.0342 lb/in <sup>3</sup>	ASTM D792
Oxidative Induction Time (OIT)	30 min	30 min	At 200°C; ASTM D3895
Melt Index of Compound	3.3 g/10 min	3.3 g/10 min	ASTM D1238/E

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.05	2.05	Borealis Test
	@Frequency 1.80e+10 Hz	@Frequency 1.80e+10 Hz	
	2.24	2.24	
	@Frequency 3.00e+9 Hz	@Frequency 3.00e+9 Hz	
Dielectric Constant	2.25	2.25	Borealis Test
	@Frequency 1e+9 Hz	@Frequency 1e+9 Hz	
Dielectric Constant	2.33	2.33	Borealis Test
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Loss Index	0.000013	0.000013	At 3 GHz; Borealis Test
	0.000014	0.000014	At 1 GHz; Borealis Test
	0.000016	0.000016	At 18 GHz; Borealis Test
	0.000080	0.000080	At 1 MHz; Borealis Test

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