

## Borealis Borcell™ ME1244 Medium Density Polyethylene

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

### Material Notes:

Borcell™ ME1244 is a fully formulated compound for chemical foamed telesingles. ME1244 is a medium-density polyethylene compound containing chemical blowing agent. Applications Borcell™ ME1244 is intended for: foam or foam-skin insulation for telephone singles with typical expansion of 35-40%, and dry core and petroleum jelly filled cables. Specifications Borcell™ ME1244 meets the applicable requirements as below when processed using sound extrusion practice and testing procedure: ASTM D1248 Type II, Class A, Category 4, BS 6234: Type 03 EN 50290-2-23 IEC 60708 NF C32-060 ISO 1872-PE, KEHN, 33-D006. Information provided by Borealis AG

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Borealis-Borcell-ME1244-Medium-Density-Polyethylene.php](http://www.lookpolymers.com/polymer_Borealis-Borcell-ME1244-Medium-Density-Polyethylene.php)

Physical Properties	Metric	English	Comments
Density	0.934 g/cc	0.0337 lb/in <sup>3</sup>	base resin; ISO 1872-2/ISO 1183
	0.937 g/cc	0.0339 lb/in <sup>3</sup>	compound; ISO 1872-2/ISO 1183
Thermal Stress Crack Resistance	1.50 hour	1.50 hour	IEC 60811-4-2/A
	@Temperature 105 °C	@Temperature 221 °F	
Oxidative Induction Time (OIT)	50 min	50 min	IEC 60811-4-2/B
	@Temperature 200 °C	@Temperature 392 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	11.0 MPa	1600 psi	50mm/min; ISO 527
	11.0 MPa	1600 psi	50mm/min, expanded 35% insulation; IEC 60811-1-1
Elongation at Break	500 %	500 %	50mm/min; ISO 527
	500 %	500 %	50mm/min, 35% expanded insulation; IEC 60811-1-1

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.31	2.31	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dissipation Factor	0.00050	0.00050	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	

Processing Properties	Metric	English	Comments
-----------------------	--------	---------	----------

Processing Temperature Processing Properties	100 - 120 °C Metric	212 - 248 °F English	conductor preheating temperature Comments
Zone 1	155 °C	311 °F	
Zone 2	170 °C	338 °F	
Zone 3	185 °C	365 °F	
Zone 4	195 °C	383 °F	
Die Temperature	195 °C	383 °F	
Melt Temperature	195 - 200 °C	383 - 392 °F	

Descriptive Properties	Value	Comments
Petroleum Jelly Absorption (%)	10	IEC 60811-4-2

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China