

## Borealis ME6032 Polypropylene

Category : Polymer , Thermoplastic , Polypropylene (PP)

### Material Notes:

ME6032 is a MDPE compound for solid insulation of telephone singles and data cables at high line speed. It contains a metal deactivator.

Applications: Dry core and petroleum jelly filled cables. Specifications: ASTM D1248 Type II, Class A, Category 5, Grade E4, E5; BS 6234:

Type 03; EN 50288; EN 50290-2-23; IEC 60708; ISO 1872-PE, KHN, 27-D003; NF C32-060; and DIN VDE 0207, 2Y11, 2Y12 and

2Y13. Information provided by Borealis AG

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Borealis-ME6032-Polypropylene.php](http://www.lookpolymers.com/polymer_Borealis-ME6032-Polypropylene.php)

Physical Properties	Metric	English	Comments
Density	0.928 g/cc	0.0335 lb/in <sup>3</sup>	ISO 1183
Environmental Stress Crack Resistance	>= 250 hour @Temperature 50.0 °C	>= 250 hour @Temperature 122 °F	Igepal 100%; F20; ASTM D1693-B
Thermal Stress Crack Resistance	>= 1.00 hour @Temperature 105 °C	>= 1.00 hour @Temperature 221 °F	IEC 60811-4-2/A
Oxidative Induction Time (OIT)	50 min @Temperature 200 °C	50 min @Temperature 392 °F	IEC 60811-4-2/B
Melt Flow	0.30 g/10 min @Load 2.16 kg, Temperature 190 °C	0.30 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	53	53	1s; ISO 868
Tensile Strength at Break	17.0 MPa	2470 psi	ISO 527
Elongation at Break	600 %	600 %	ISO 527

Thermal Properties	Metric	English	Comments
Brittleness Temperature	<= -76.0 °C	<= -105 °F	ASTM D746

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+6 ohm-cm	1.00e+6 ohm-cm	IEC 60093
Dielectric Constant	2.3 @Frequency 1.00e+6 Hz	2.3 @Frequency 1.00e+6 Hz	IEC 60250

Electrical Properties	Metric	English	Comments
Dielectric Strength	22.0 kV/mm	550 kV/in	IEC 60250
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dissipation Factor	0.00015	0.00015	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	

Processing Properties	Metric	English	Comments
Processing Temperature	70.0 - 100 °C	158 - 212 °F	conductor preheating temperature; 2400 m/min line speed
Middle Barrel Temperature	165 - 230 °C	329 - 446 °F	
Melt Temperature	220 - 240 °C	428 - 464 °F	
Head Temperature	230 °C	446 °F	

Descriptive Properties	Value	Comments
Petroleum Jelly Absorption (%)	8	IEC 60811-4-2

## Contact Songhan Plastic Technology Co.,Ltd.

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