

Borealis PE ME6032

Medium Density Polyethylene

Borealis AG

Message:

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

Applications

ME6032 is intended for Dry core and petroleum jelly filled cables

Specifications

ME6032 meets the following material classification:

ISO 1872-PE, KGHN, 27-D003

ASTM D 1248 Type II, Class A, Category 5, Grade E4, E5

EN 50290-2-23

DIN VDE 0207, 2Y11

DIN VDE 0207, 2Y13

Cables manufactured with ME6032 using sound extrusion practice normally comply with the following cable product

standards:

IEC 60708

IEC 61156

EN 50288

EN 50407

General Information			
Features	Fast molding cycle		
	Good adhesion		
Uses	Telephone insulator		
	Communication wire insulation material		
Agency Ratings	ASTM D 1248, II, Class A, Cat. 5, Grade E4 , E5		
	DIN VDE 0207, 02Y11 , 2Y12 & 2Y13		
	EN 50288		
	EN 50290-2-23		
	EN 50407		
	IEC 60708		
	IEC 61156		
	ISO 1872 PE KHN 27D003		
Forms	Particles		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.928	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.30	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance (50°C, 100% Igepal, F20)	> 250	hr	
Hardness	Nominal Value	Unit	Test Method

Durometer Hardness (Shore D, 1 sec)	53		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	17.0	MPa	ISO 527-2
Tensile Strain (Break)	600	%	ISO 527-2
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -76.0	°C	ASTM D746
Oxidation Induction Time (200°C)	50	min	IEC 60811-4-2/B
Petroleum jelly absorption	8.0	%	IEC 60811-4-2
Resistance to Thermal Ageing (105°C)	> 1.4	month	IEC 60811-4-2/A
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms·cm	IEC 60093
Dielectric Strength	22	kV/mm	IEC 60243-1
Dielectric Constant (1 MHz)	2.30		IEC 60250
Dissipation Factor (1 MHz)	1.5E-4		IEC 60250
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	165 - 230	°C	
Cylinder Zone 2 Temp.	165 - 230	°C	
Cylinder Zone 3 Temp.	165 - 230	°C	
Cylinder Zone 4 Temp.	165 - 230	°C	
Melt Temperature	220 - 240	°C	
Die Temperature	230	°C	
Extrusion instructions			

Conductor preheating temperature: 70 to 100 °C - 2400 m/minLine speed

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