

Borealis LE6023

Low Density Polyethylene

Borealis AG

Message:

LE6023 is a black flexible low density copolymer modified polyethylene compound. It is characterized by excellent stress crack resistance and mechanical properties and low-temperature performance in combination with good extrudability.

LE6023 contains 2.5% well dispersed furnace black of nominal particle size 20 nanometers in order to ensure excellent weathering resistance.

General Information			
Features	Copolymer		
	Good Flexibility		
	Good Weather Resistance		
	High ESCR (Stress Crack Resist.)		
	Low Density		
Uses	Cable Jacketing		
Agency Ratings	ASTM D 1248, I, Class A, Cat. 4		
	IEC 60502 Type ST3		
	IEC 60708		
	IEC 60840 Type ST3		
	ISO 1872 PE KCHL 23D012		
Appearance	Black		
Forms	Granules		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density			ISO 1183
-- ¹	0.934	g/cm ³	
-- ²	0.924	g/cm ³	
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.35	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance (50°C, 10% Igepal, F20)	1000	hr	IEC 60811-4-1
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 1 sec)	45		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	> 14.0	MPa	ISO 527-2/50
Tensile Strain (Break)	> 600	%	ISO 527-2/50
Flexural Modulus	125	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -76.0	°C	ASTM D746

Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms·cm	IEC 60093
Electric Strength	20	kV/mm	IEC 60243-1
Dielectric Constant (1 MHz)	2.50		IEC 60250
Dissipation Factor (1 MHz)	6.0E-3		IEC 60250
Extrusion	Nominal Value	Unit	
Melt Temperature	200 to 210	°C	
NOTE			
1.	Compound		
2.	Base Resin		

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