

Braskem PE GD5150K

High Density Polyethylene

Braskem

Message:

GD5150K is a High Density Polyethylene, with medium molar mass, specially developed for the manufacturing of insulation for wires and cables demanding high extrusion velocity. It has medium molar mass, shows good dielectric properties and contains special additives to prevent catalytic oxidation of copper.

Application:
Insulation for wires and cables; multiplex cables.

General Information			
Additive	Unspecified Additive		
Features	Good Electrical Properties		
	Medium Molecular Weight		
Uses	Insulation		
	Wire & Cable Applications		
Forms	Pellets		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.946	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.83	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (50°C, 2.00 mm, 100% Igepal, Compression Molded, F50)	139	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Compression Molded)	63		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, Compression Molded	23.0	MPa	
Break, Compression Molded	28.0	MPa	
Tensile Elongation			ASTM D638
Yield, Compression Molded	11	%	
Break, Compression Molded	980	%	
Flexural Modulus - 1% Secant (Compression Molded)	950	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Compression Molded)	65	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (0.45 MPa, Unannealed, Compression Molded)	69.0	°C	ASTM D648
Vicat Softening Temperature	121	°C	ASTM D1525 ¹
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+15	ohms·cm	ASTM D257
Dielectric Strength	40	kV/mm	ASTM D149
Dielectric Constant (1 kHz)	2.30		ASTM D150
Dissipation Factor (1 kHz)	6.0E-4		ASTM D150
NOTE			

1. Loading 1 (10 N)

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