

# SABIC® LLDPE RG50035

Linear Low Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® LLDPE RG50035 is a Linear Low Density Polyethylene reactor powder grade typically used for various compounding applications, including Wire & Cable extrusion.

SABIC® LLDPE RG50035 contains a low level of antioxidants and does not contain any antiblock and/or slip agents.

Application

Wire & Cable Extrusion: Base resin for Cable compounds and masterbatches.

Masterbatch Compounding: Compounding applications, like colour masterbatches.

This product is not intended for and must not be used in any pharmaceutical/medical applications.

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Low Density		
Uses	Compounding		
	Masterbatch		
	Wire & Cable Applications		
Forms	Powder		
Processing Method	Compounding		
	Extrusion		
	Wire & Cable Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.935	g/cm <sup>3</sup>	ISO 1183, ASTM D1505
Apparent Density	0.42	g/cm <sup>3</sup>	ASTM D1895
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	5.0	g/10 min	ASTM D1238, ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, Compression Molded)	14.0	MPa	ISO 527-2
Tensile Strain			ISO 527-2
Yield, Compression Molded	15	%	
Break, Compression Molded	100	%	
Flexural Modulus (23°C, Compression Molded)	490	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (Compression Molded)	40	kJ/m <sup>2</sup>	ISO 180/A
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	114	°C	ISO 306/A

Melting Temperature (DSC)	125	°C	Internal Method
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	7.0E+15	ohms·cm	ASTM D257
Dielectric Strength <sup>1</sup>	61	kV/mm	ASTM D149
Dielectric Constant (60 Hz)	2.19		ASTM D150
Dissipation Factor (60 Hz)	5.0E-4		ASTM D150

NOTE			
1.	500 V/sec		

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