

# PRE-ELEC® PE 1271

Low Density Polyethylene + LLDPE

Premix Oy

## Message:

PRE-ELEC® PE 1271 is a carbon black filled conductive thermoplastic compound based on a blend of PE-LD/PE-LLD. In addition to a low electrical resistivity PRE-ELEC® PE 1271 has an excellent balance of mechanical properties and is easy to extrude.

Typical applications include blown mono- or co-extrusion film for ESD bags and innerliners, bags or layflat tubing for hazardous powders.

General Information			
Additive	Carbon Black		
Features	Conductive		
	Good Processability		
	Low Density		
Uses	Bags		
	Film		
	Liners		
	Tubing		
Forms	Granules		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.02	g/cm <sup>3</sup>	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/21.6 kg	35	g/10 min	
190°C/5.0 kg	1.7	g/10 min	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Across Flow : Yield	15.2	MPa	ASTM D638
Flow : Yield	21.4	MPa	ASTM D638
Across Flow : Yield	15.0	MPa	ISO 527-2
Flow : Yield	21.0	MPa	ISO 527-2
Across Flow	22.1	MPa	ASTM D638
Flow	24.1	MPa	ASTM D638
-- 1	22.0	MPa	ISO 527-2
0.400 mm <sup>2</sup>	24.0	MPa	ISO 527-2
Tensile Elongation			
Across Flow : Yield	17	%	ASTM D638, ISO 527-2
Flow : Yield	13	%	ASTM D638, ISO 527-2
Across Flow : Break	600	%	ASTM D638
Flow : Break	590	%	ASTM D638

Break, 0.300 mm <sup>3</sup>	600	%	ISO 527-2
Break, 0.300 mm <sup>4</sup>	590	%	ISO 527-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	< 1.0E+5	ohms	ESD STM11.11, IEC 61340-2-3
Additional Information	Nominal Value	Unit	
Blow Molding Barrel Temperature	160 to 200	°C	
Blow-up Ratio	> 1.80		
NOTE			
1.	.4 mm thickness, Across Flow		
2.	Flow		
3.	Across Flow		
4.	Flow		

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