PRE-ELEC® CP 1515

Polyolefin

Premix Oy

Message:

PRE-ELEC® CP 1515 is a carbon black filled conductive thermoplastic compound based on polyolefin copolymer. In addition to a low electrical resistivity.
PRE-ELEC® CP 1515 has an excellent balance of mechanical properties and is easy to extrude.
PRE-ELEC® CP 1515 has been developed especially for block-process foams.

General Information			
Additive	Carbon black		
Features	Conductivity Workability, good		
Uses	Foam		
Forms	Particles		
Processing Method	Extrusion		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity			
--	1.05	g/cm³	ASTM D792
--	1.06	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR)			ASTM D1238, ISO 1133
190°C/21.6 kg	50	g/10 min	ASTM D1238, ISO 1133
190°C/5.0 kg	1.2	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			
Flow	1.2	%	ASTM D955
Flow direction	1.2	%	ISO 294-4
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness			ASTM D2240, ISO 868
Shaw A	95		ASTM D2240, ISO 868
Shaw D	50		ASTM D2240, ISO 868
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength	11.0	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break)	450	%	ASTM D638, ISO 527-2
Flexural Modulus			
4.00 mm	1100	MPa	ASTM D790
4.00 mm	110	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			
-20°C [1]	40	kJ/m²	ASTM D256, ISO 179
23°C [2]	No Break		ISO 179, ASTM D256
Charpy Unnotched Impact Strength [3]			

-20°C	No Break		ASTM D256, ISO 179
2°C	No Break		ISO 179
23°C	No Break		ASTM D256
Notched Izod Impact			ASTM D256
-20°C, 4.00 mm	No Break		ASTM D256
23°C, 4.00 mm	No Break		ASTM D256
Notched Izod Impact [4]			ISO 180
-20°C	No Break		ISO 180
23°C	No Break		ISO 180
Unnotched Izod Impact			ASTM D256
-20°C, 4.00 mm	No Break		ASTM D256
23°C, 4.00 mm	No Break		ASTM D256
Unnotched Izod Impact Strength [5]			ISO 180
-20°C	No Break		ISO 180
23°C	No Break		ISO 180
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (0.45 MPa, Unannealed)	35.0	°C	ASTM D648B, ISO 75-2/Bf
Vicat Softening Temperature	50.0	°C	ISO 306/A50, ASTM D1525 [6]
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	< 1.0E+3	ohms	ESD STM11.11, IEC 61340-2-3
Volume Resistivity	< 1.0E+2	ohms·cm	Internal method
Extrusion	**Nominal Value**	**Unit**	
Drying Temperature	60.0	°C	
Drying Time	3.0	hr	
Cylinder Zone 1 Temp.	180	°C	
Cylinder Zone 2 Temp.	180	°C	
Cylinder Zone 3 Temp.	190	°C	
Cylinder Zone 4 Temp.	190	°C	
Cylinder Zone 5 Temp.	200	°C	
Extrusion instructions			
Cylinder Zone 6: 200°C			
NOTE			
1.	4 mm thickness		
2.	4 mm thick		
3.	4 mm thick		
4.	4 mm thick		
5.	4 mm thick		
6.	速率 A (50°C/h), 载荷2 (50N)		

infringement occurs, please contact us immediately.

Recommended distributors for this material

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