Technical Data Sheet

Ferrocon EPP99GA02BK

Polypropylene Copolymer
LyondellBasell Industries
Engineering Plastics

General		
Features	• Copolymer	• Electrically Conductive
Appearance	• Black	
Forms	• Pellets	
Processing Method	• Injection Molding	

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.03	1.03 g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°c/2.16 Kg)	0.30 g/10 min	0.30 g/10 min	ASTM D1238
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Tensile Strength (73°f (23°c))	3500 psi	24.1 MPa	ASTM D638
Tensile Elongation (Break, 73°f (23°c))	20 %	20 %	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : 73°f (23°c)	175000 psi	1210 MPa	
Tangent : 73°f (23°c)	190000 psi	1310 MPa	
Flexural Strength (73°f (23°c))	4600 psi	31.7 MPa	ASTM D790
Impact	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Notched Izod Impact (73°f (23°c))	9.5 ft·lb/in	510 J/m	ASTM D256
Gardner Impact (73°f (23°c))	200 in·lb	22.6 J	ASTM D5420
Thermal	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Deflection Temperature Under Load			ASTM D648
66 Psi (0.45 Mpa), Unannealed	270 °F	132 °C	
264 Psi (1.8 Mpa), Unannealed	135 °F	57.2 °C	
Electrical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Surface Resistivity	6.0E+2 ohms	6.0E+2 ohms	ASTM D257
Volume Resistivity	3.0E+2 ohms·cm	3.0E+2 ohms·cm	ASTM D257

Additional Information

The value listed as Volume Resistivity, ASTM D257, was tested in accordance with ASTM D637.
The value listed as Surface Resistivity, ASTM D257, was tested in accordance with QARD-17.
Filler Content, ASTM D2584: 21.0%

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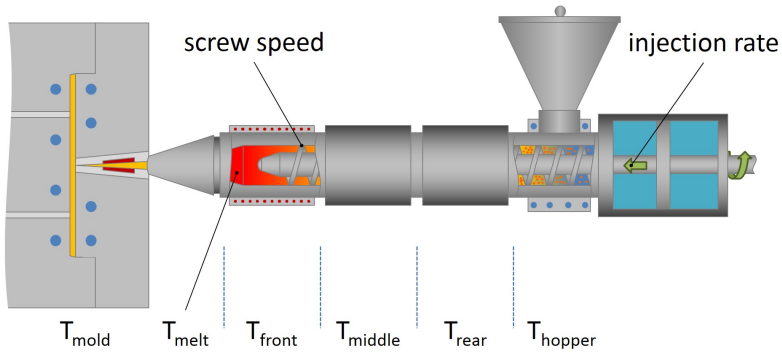

Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	200 °F	93 °C
Drying Time	2.0 hr	2.0 hr
Rear Temperature	400 to 450 °F	204 to 232 °C
Middle Temperature	420 to 500 °F	216 to 260 °C
Front Temperature	430 to 500 °F	221 to 260 °C
Nozzle Temperature	420 to 500 °F	216 to 260 °C
Mold Temperature	80 to 150 °F	27 to 66 °C
Back Pressure	20.0 to 50.0 psi	0.138 to 0.345 MPa
Screw Speed	40 to 100 rpm	40 to 100 rpm
Clamp Tonnage	2.0 to 3.0 tons/in²	2.8 to 4.1 kN/cm²
Screw L/D Ratio	20.0:1.0	20.0:1.0
Screw Compression Ratio	2.0:1.0	2.0:1.0

Notes

These are typical property values not to be construed as specification limits.