+135-3858-6433 (GuangDong)
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LNP Faradex* DS-1003 FR HI

Polycarbonate

SABIC Innovative Plastics Asia Pacific

General			
Filler / Reinforcement	• Stainless Steel Fiber		
Features	• Bromine Free • Chlorine Free • Electrically Conductive	• Electromagnetic Shielding (EMI) • Flame Retardant • High Impact Resistance	• Radio Frequency Shielding (RFI)
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical	Nominal Value	Unit	Test Method
Density	1.29	g/cm³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow: 24 hr	0.50	%	
Flow: 24 hr	0.40 to 0.70	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	2800	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield	57.0	MPa	
Break	55.0	MPa	
Tensile Strain			ISO 527-2
Yield	3.8	%	
Break	6.0	%	
Flexural Modulus	2600	MPa	ISO 178
Flexural Strength	80.0	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			
3.18 mm	123	J/m	ASTM D256
--	11.0	kJ/m²	ISO 180
Unnotched Izod Impact			
3.18 mm	1790	J/m	ASTM D256
--	85.0	kJ/m²	ISO 180
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, Unannealed	136	°C	ISO 75-2/B
1.8 MPa, Unannealed	125	°C	ISO 75-2/A
CLTE			ISO 11359-2
Flow	0.000067	cm/cm/°C	
Transverse	0.000056	cm/cm/°C	
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0 to 1.0E+3	ohms	ASTM D4496
Volume Resistivity	1.0E+4	ohm·cm	ASTM D257
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating - UL (2.10 mm)	V-0		UL 94

Additional Information

Tensile Strain @ Break, ISO 527: 4 to 8%
EMI Shielding Effect, ASTM D4935-99: 40 to 55 DB
Volume Resistivity, ASTM D257: 1e0 to 1e4 ohm-cm

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Injection	Nominal Value	Unit
Drying Temperature	121 to 129	°C
Drying Time	4.0	hr
Suggested Max Moisture	0.020	%
Processing (Melt) Temp	304 to 321	°C
Mold Temperature	93.3 to 129	°C
Back Pressure	0.172 to 0.345	MPa

Notes

[1] Typical properties: these are not to be construed as specifications.