

LNP™ FARADEx™ DS0036I compound

Polycarbonate

SABIC Innovative Plastics

Message:

LNP FARADEx DS0036I is a compound based on Polycarbonate resin containing 15% Stainless Steel. Added features of this material include: Electrically Conductive, EMI/RFI Shielding, High Impact, Non-Brominated & Non-Chlorinated Flame Retardant.

Also known as: LNP* FARADEx* Compound DS-1003 FR HI

Product reorder name: DS0036I

General Information			
Filler / Reinforcement	Stainless Steel Fiber,15% Filler by Weight		
Features	Bromine Free		
	Chlorine Free		
	Electrically Conductive		
	Electromagnetic Shielding (EMI)		
	Flame Retardant		
	High Impact Resistance		
	Radio Frequency Shielding (RFI)		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.29	g/cm ³	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 527-2/1
Tensile Stress			ISO 527-2
Yield	57.0	MPa	
Break	55.0	MPa	
Tensile Strain			ISO 527-2
Yield	3.8	%	
Break	4.0 to 8.0	%	
Flexural Modulus	2600	MPa	ISO 178
Flexural Stress	80.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	120	J/m	ASTM D256
23°C ¹	11	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	1800	J/m	ASTM D4812

23°C ²	85	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ³			
0.45 MPa, Unannealed, 64.0 mm Span	136	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 64.0 mm Span	125	°C	ISO 75-2/Af
CLTE			ISO 11359-2
Flow : -40 to 40°C	6.7E-5	cm/cm/°C	
Transverse : -40 to 40°C	5.6E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 to 1.0E+3	ohms	ASTM D257
Volume Resistivity	1.0E+4	ohms·cm	ASTM D257
Shielding Effectiveness (3.00 mm)	40 to 55	dB	Internal Method
Flammability	Nominal Value	Unit	Test Method
Flame Rating (2.10 mm, Testing by SABIC)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	293 to 304	°C	
Middle Temperature	310 to 321	°C	
Front Temperature	321 to 332	°C	
Processing (Melt) Temp	304 to 327	°C	
Mold Temperature	93.3 to 121	°C	
Back Pressure	0.172 to 0.344	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	80*10*4		
2.	80*10*4		
3.	80*10*4 mm		

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