

LNP™ FARADEX™ DS0026I compound

Polycarbonate

SABIC Innovative Plastics

Message:

LNP* FARADEX* DS0026I is a compound based on Polycarbonate resin containing Stainless Steel Fiber. Added features of this grade include: High Impact, Flame Retardant, Non-Brominated & Non-Chlorinated Flame Retardant, EMI/RFI Shielding.

Also known as: LNP* FARADEX* Compound DS0026I

Product reorder name: DS0026I

General Information			
UL YellowCard	E121562-102158629		
Filler / Reinforcement	Stainless Steel Fiber		
Features	Bromine Free		
	Chlorine Free		
	Electromagnetic Shielding (EMI)		
	Flame Retardant		
	High Impact Resistance		
	Radio Frequency Shielding (RFI)		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.26	g/cm³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.78	%	
Across Flow : 24 hr	1.0	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2790	MPa	ASTM D638
--	2490	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	60.0	MPa	ASTM D638
Yield	56.0	MPa	ISO 527-2/5
Break ³	48.0	MPa	ASTM D638
Break	49.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	4.5	%	ASTM D638
Yield	4.2	%	ISO 527-2/5
Break ⁵	7.8	%	ASTM D638
Break	5.4	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁶	2510	MPa	ASTM D790

-- ⁷	2420	MPa	ISO 178
Flexural Stress	87.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	150	J/m	ASTM D256
23°C ⁸	13	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	No Break		ASTM D4812
23°C ⁹	120	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed, 64.0 mm Span ¹⁰	138	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	130	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹¹	129	°C	ISO 75-2/Af
CLTE			ASTM E831
Flow : -40 to 40°C	5.8E-5	cm/cm/°C	
Transverse : -40 to 40°C	6.4E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	24	ohms	ASTM D257
Volume Resistivity	1.4E+3	ohms·cm	ASTM D257
Static Decay	10	msec	MIL B-81705D
Flammability	Nominal Value	Unit	Test Method
Flame Rating (2.00 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.	5.0 mm/min		
2.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	Type I, 5.0 mm/min		
5.	Type I, 5.0 mm/min		
6.	1.3 mm/min		
7.	2.0 mm/min		

8.	80*10*4
9.	80*10*4
10.	80*10*4 mm
11.	80*10*4 mm

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