



LNP™ FARADEX™ Compound DS0036I

Europe-Africa-Middle East: COMMERCIAL

Also known as: LNP™ FARADEX™ Compound DS1003FRHIS
Product reorder name: DS0036I

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

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	600	kgf/cm ²	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	540	kgf/cm ²	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	4.3	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	5.1	%	ASTM D 638
Tensile Modulus, 5 mm/min	26000	kgf/cm ²	ASTM D 638
Tensile Stress, yield, 5 mm/min	57	MPa	ISO 527
Tensile Stress, break, 5 mm/min	55	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	3.8	%	ISO 527
Tensile Strain, break, 5 mm/min	4 - 8	%	ISO 527
Tensile Modulus, 1 mm/min	2500	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	80	MPa	ISO 178
Flexural Modulus, 2 mm/min	2600	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	182	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	12	cm-kgf/cm	ASTM D 256
Multiaxial Impact	295	cm-kgf	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	70	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	10	kJ/m ²	ISO 180/1A
THERMAL			
CTE, 23°C to 60°C, flow	5.7E-05	1/°C	ISO 11359-2
CTE, 23°C to 60°C, xflow	6.8E-05	1/°C	ISO 11359-2
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	136	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	125	°C	ISO 75/Af



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TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
PHYSICAL			
Mold Shrinkage on Tensile Bar, flow (2) (5)	0.4 - 0.7	%	SABIC Method
Mold Shrinkage, xflow, 24 hrs (5)	0.4 - 0.6	%	ISO 294
Density	1.29	g/cm ³	ISO 1183
Water Absorption, 23°C/24hrs	0.13	%	ISO 62-1
ELECTRICAL			
Volume Resistivity	1.E+04 - 1.E+06	Ohm-cm	ASTM D 257
Surface Resistivity	1.E+02 - 1.E+04	Ohm	ASTM D 257
Static Decay, 5000V to <50V	0.01	< seconds	FTMS101B
Shielding Effectiveness @ 3mm	40 - 55	dB	SABIC Method
FLAME CHARACTERISTICS			
UL Recognized, 94V-0 Flame Class Rating (3)	2	mm	UL 94



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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	120	°C
Drying Time	4	hrs
Maximum Moisture Content	0.02	%
Melt Temperature	305 - 325	°C
Front - Zone 3 Temperature	320 - 330	°C
Middle - Zone 2 Temperature	310 - 320	°C
Rear - Zone 1 Temperature	295 - 305	°C
Mold Temperature	95 - 120	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm