



LNP* Faradex* Compound DS0036IP

Asia Pacific: COMMERCIAL

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

Product reorder name: DS0036IP

LNP* Faradex* DS0036IP is a compound based on Polycarbonate resin containing Stainless Steel. Added features of this material include: Electrically Conductive, EMI/RFI Shielding, High Impact, Non-Brominated & Non-Chlorinated Flame Retardant.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	UNIT	STANDARD
MECHANICAL			
Tensile Stress, yield	57	MPa	ISO 527
Tensile Stress, break	55	MPa	ISO 527
Tensile Strain, yield	3.8	%	ISO 527
Tensile Strain, break	4 - 8	%	ISO 527
Tensile Modulus, 1 mm/min	2800	MPa	ISO 527
Flexural Stress	80	MPa	ISO 178
Flexural Modulus	2600	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	1788	J/m	ASTM D 4812
Izod Impact, notched, 23°C	122	J/m	ASTM D 256
Izod Impact, unnotched 80*10*4 +23°C	85	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	11	kJ/m ²	ISO 180/1A
THERMAL			
CTE, -40°C to 40°C, flow	6.7E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	5.6E-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
PHYSICAL			
Mold Shrinkage, flow, 24 hrs	0.4 - 0.7	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	0.5	%	ISO 294
Density	1.29	g/cm ³	ISO 1183
ELECTRICAL			
Volume Resistivity	- 1.E+04	Ohm-cm	ASTM D 257
Surface Resistivity	1.E+02 - 1.E+03	Ohm	ASTM D 257
Shielding Effectiveness @ 3mm	40 - 55	dB	SABIC Method



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FLAME CHARACTERISTICS UL Compliant, 94V-0 Flame Class Rating (3)(4)	2.1	mm	UL 94 by GE



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PROCESSING PARAMETERS	TYPICAL VALUE	UNIT
Injection Molding		
Drying Temperature	120 - 150	°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