

LNP* Faradex* Compound DS0036IP

Americas: COMMERCIAL

Also known as: 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.

Property

TYPICAL PROPERTIES ⁽¹⁾			
MECHANICAL	Value	Unit	Standard
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	Value	Unit	Standard
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	Value	Unit	Standard
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	Value	Unit	Standard
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	Value	Unit	Standard
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
FLAME CHARACTERISTICS	Value	Unit	Standard
UL Compliant, 94V-0 Flame Class Rating (3)(4)	2.1	mm	UL 94 by GE

Source GMD, last updated:04/23/2007

Processing

Parameter	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

Source GMD, last updated:04/23/2007

THESE PROPERTY VALUES ARE NOT INTENDED FOR SPECIFICATION PURPOSES.

PLEASE CHECK WITH YOUR [\(LOCAL SALES OFFICE\)](#) FOR AVAILABILITY IN YOUR REGION

(1) Typical values only. Variations within normal tolerances are possible for various colors. All values are measured after at least 48 hours storage at 23°C/50% relative humidity. All properties, except the melt volume and melt flow rates, are measured on injection molded samples. All samples tested under ISO test standards are prepared according to ISO 294.

(2) Only typical data for selection purposes. Not to be used for part or tool design.

(3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.

(4) Internal measurements according to UL standards.

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