

# LNPT<sup>™</sup> FARADEX<sup>™</sup> COMPOUND DS0036IP

DS-1003 FR HI  
REGION ASIA

## DESCRIPTION

LNP FARADEX DS0036IP 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.

## TYPICAL PROPERTY VALUES

Revision 20180905

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>MECHANICAL</b>			
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
<b>IMPACT</b>			
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 <sup>2</sup>	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	11	kJ/m <sup>2</sup>	ISO 180/1A
<b>THERMAL</b>			
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
<b>PHYSICAL</b>			
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 <sup>3</sup>	ISO 1183
<b>ELECTRICAL</b>			
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
<b>FLAME CHARACTERISTICS</b>			
UL Compliant, 94V-0 Flame Class Rating	2.1	mm	UL 94 by SABIC-IP
<b>INJECTION MOLDING</b>			
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	

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
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	

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